DOCUMENT RESUME

ED 138 641 TM 006 296

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TITLE Item Analysis Report: MTEA.
INSTITUTION James Cook Univ. of North Queensland, Townsville (Australia). Dept. of Education.
SPONS AGENCY Office of Education (DHEW), Washington, D.C.
PUB DATE Feb 77
NOTE 151p.

EDRS PRICE MF-$0.83 HC-$8.69 Plus Postage.
DESCRIPTORS *English (Second Language); *Item Analysis; *Language Tests; Secondary Education; Test Reliability; Test Validity
IDENTIFIERS *Micronesian Test of English Abilities

ABSTRACT

The Micronesian Test of English Abilities (MTEA) is a measure of English second language achievement comprised of a listening comprehension section, a structure and vocabulary section, and a reading comprehension section. The original purpose of the test was to determine how well junior high Micronesian students had learned materials studied in the Tate Oral English series. Although the test was designed as a criterion referenced measure, and outer island students have been selected to go on to high school based on scores on the test, it has also been used for the last four years as a general English achievement measure for program evaluation. The purpose of the project, of which this report represents the first part, is to provide psychometric evidence about the MTEA by evaluating both forms of the test. Item analyses were performed and recommendations were made to establish and improve the psychometric properties of the test. These recommendations will be used in conjunction with recommendations from curriculum experts to produce two modified versions of the MTEA for the final development of local norms. Each of the three subtests of the MTEA for forms A and B was analyzed separately for each of five grades (6-10). The results were compiled by subtest in simplified summary form and are presented in the appendices. Summary statistics, means, standard deviations, and measures of internal consistency are provided at the beginning of each appendix. (RC)

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ED138641

ITEM ANALYSIS REPORT: MTEA

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TM006 296

James Cook University of North Queensland.

Department of Education

ITEM ANALYSIS REPORT

Micronesian Test of English Abilities (MTEA)

Forms A and B

Listening Comprehension (Part I)
Structure and Vocabulary (Part II)
Reading Comprehension (Part III)

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This report has been prepared as part of the 1976-1977 contract between James Cook University of North Queensland, Australia, and the Department of Education of the Government of Northern Mariana Islands with funding from a grant by the United States Office of Education, ESEA Title III. The materials contained herein represent the opinions of the authors and no endorsement of the work by the U.S.O.E. is implied.

The authors could not have completed this report without the assistance of Irving Borden, Director of Project LEAP and Imants Klingbergs, Director of Title I, Department of Education, Saipan and their staff who provided critical background materials, collected test data, and posed key questions to be answered.

Introduction

The Micronesian Test of English Abilities (MTEA) is a measure of English Second Language achievement. It is comprised of three parts: (1) a 50 item listening comprehension section, (2) a 60 item structure and vocabulary section, and (3) a 30 item reading comprehension section. The original purpose of the MTEA was to determine how well 7th, 8th and 9th grade Micronesian students had learned materials studied in books 1-13 of the Tate Oral English series. Although the MTEA was designed as a criterion referenced measure, and outer island students have been selected to go on to high school based on scores on the test, it has also been used for the last 4 years as a general English achievement measure for program evaluation.

Two forms of the test have been developed and used at various times for these purposes. Despite the fact that the test has content validity, since the items reflect the Tate syllabus, and that the test was designed by English second language curriculum specialists who were familiar with Micronesian languages and cultures, there has been hesitation in some quarters to fully accept the tests' results since no psychometric data has been available, as would be the case for stateside tests.

The purpose of this project, of which this report represents the first part, is to provide psychometric evidence about the MTEA by evaluating both forms of the test. To do this, item analyses were to be performed and recommendations were to be made to establish and improve the tests psychometric characteristics. These recommendations would then be used, in conjunction with curriculum experts recommendations, to produce two modified versions of the MTEA for the final development of local norms.

Data Collection

Data for the item analyses were collected in May (Form B) and October

TABLE 1

Sources for Item Analysis Data for MTEA

	Form A (Fall 1976)		Form B (Spring 1976)	
Grade	School	N	School	N
6	Rota	28	Rota	28
	Oleai	25	*	
	Tinian	19	*	
7	Oleai	39	Oleai	26
	Rota	33	Rota	30
	Tinian	29	*	
8	Hopwood J.H.S.	50	Hopwood J.H.S.	43
	Rota J.H.S.	31	Rota J.H.S.	25
	Tinian J.H.S.	26	*	
9	Rota J.H.S.	14	Rota J.H.S.	38
	Tinian J.H.S.	28	Tinian J.H.S.	25
	Hopwood J.H.S.	50	Hopwood J.H.S.	50
10	Rota	31	Rota	23

* Student answer sheets not available for item analysis.

(Form A) 1976 from grades 6-10. Table 1 lists the sources of data by test form, grade and school. Data were collected from grades 6 thru 10 to provide information about the upper and lower limits of achievement of grades 7, 8 and 9 for whom the tests were designed. The data used in the item analyses were not collected as a random sample of students from grades 6 thru 10 but rather represents some of the data from the ongoing testing program using intact classes from the three major islands in the Micronesian district. Depending on the grade, the sample size ranges from approximately 10% in tenth grade, 30% in grades 7, 8 and 9, to 20% in grade 6. In general, the policy of the Micronesian district is to arrange its classes so that students are mixed in ability.

The sample, while not fully representative of the total district student population, does prove a very substantial basis for item analysis of the MTEA and its subsequent improvement, in that the data represents a wide variety of student backgrounds and achievement levels.

Item Analysis Results

Each of the three subtest of the MTEA for Forms A and B was analysed separately for each of the five grades using computer programs by Veldman (1967) and Oosterhof et al. (1972). The results were compiled by subtest in simplified summary form and are presented in Appendices A-F as follows:

Appendix	Content
A.	Listening Comprehension - Form A
B.	Structure and Vocabulary - Form A
C.	Reading Comprehension - Form A
D.	Listening Comprehension - Form B
E.	Structure and Vocabulary - Form B
F.	Reading Comprehension - Form B

Summary statistics, means, standard deviations and measures of internal consistancy are provided at the beginning of each appendix. These are followed by a key to the symbols used in the item analysis developed by the authors specifically for this project. Following each item, a simplified summary of the item statistics using the key is provided to assist in item revision.

Interpretation of the Item Analysis Data

Two major areas need to be examined in any analysis and revision of test items. The statistical analysis, with its bases being that of sampling techniques, upper and lower limits, number of distractors and so on, provides the first level of information which then informs the second analysis, that of the content/curriculum area. Taken together, they make possible a reliable and valid instrument.

The item analysis data is seen therefore as an indicator of the need for changes in the items by content area specialists. Such changes should consider (1) the overall purpose of the test, (2) the characteristics of the students being tested, (3) the changes possible in the content of a specific item while maintaining curricular validity, and (4) the nature of the statistical indicators.

The discussion which follows concentrates on the 4th point since this is the major purpose of this report. Two major statistical indicators have been provided in the results for each option of each item. The first is the difficulty level (Dif) or the percentage of students choosing each option. Thorndike, et al., 1969, 49, provide the following table of "ideal" item difficulties.

Type of Item	Average Difficulty (Percent Correct)
Completion/short answer items	50
5-choice multiple-choice	70
4-choice multiple-choice	74* Structure & Voc. Reading Comp.
3-choice multiple-choice	77* Listening Comp.
True-False items	85

Items with these difficulties will tend to yield a set of scores that will be maximally useful in discriminating levels of achievement among students (i.e., in a norm-referenced setting will produce a reliable test). While these figures represent the "ideal" difficulty for an item, in practice, a range of item difficulties is desirable so as to provide some easy items (Dif = .85-.90) for the poorer student and difficult items (Dif = .30-.40 for the more advanced, with the majority of items clustering around the "ideal" difficulty level.

The percentage of students choosing each distractor or incorrect option is also important. If a distractor is not selected or has few students selecting it, the distractor should be revised by making it more attractive or more reasonable. For example, if one distractor is not working, that is no student selects it in a three option item, then in effect the question becomes a True-False one.

The second indicator provided is the point-biserial correlation (Pbs) between a student choosing a particular item option and the student's total score on the test. For the correct option, the point-biserial correlation is commonly called the discrimination index. Generally, an item is said to discriminate adequately if the correct answer positively correlates with the total score at .30 or better. Distractors should be uncorrelated or correlate negatively with the total score. When a distractor has a high positive point-biserial correlation, it indicates possible ambiguity in the item since this indicates that a significant proportion of students scoring high on the test believed that this was the correct answer. Some numerical examples of these points follow:

"Suitable" Item

	Dif.	Pbs.
A.	.10	- .25
B*	.77	.45
C.	.13	- .23

Weak Distractor(A)

	Dif.	Pbs.
A.	.01	.00
B*	.80	.34
C.	.19	- .34

Ambiguous(A)

	Dif.	Pbs.
A.	40	.23
B*	40	.15
C.	20	- .53

Too Easy

	Dif.	Pbs.
A.	.01	- .12
B*	.98	.20
C.	.01	- .07

Too Difficult

	Dif.	Pbs.
A.	38	- .08
B*	19	.45
C.	43	- .37

Guessing

	Dif.	Pbs.
A.	35	.02
B*	30	.05
C.	35	- .03

In addition, the following specific points should also be noted with regard to the item analyses found in Appendices A-F:

(1) Generally items should become easier from 6th to 10th grades, that is the difficulty index should increase from say, .30 towards .80 or .90.

(2) The tenth grade results should show a consistent pattern of difficulty indexes in the high 90's or 100's since these students have covered all the materials and are to some extent a group selected because of test results on the MTEA. That is, items which are difficult for this group probably reflect poor item construction or inadequate classroom coverage of this material.

(3) Since the results are not from the same or comparable schools, across grade results may vary due to differences (background, exposure, ability) in the samples available. For example, on Form B, Part I, Item 4, the data suggest that this question was easier for 8th than 9th grades.

(4) Since the number of students varies for each grade care must be taken in comparing difficulty indices for options (i.e. .05 (N=20) is 1 student

result; .05 (N=100) is five student results). This is particularly true for tenth grade results.

(5) To save space on the item analysis decimal points for the difficulty index and point biserial correlations have been omitted (i.e. 50 = .50).

(6) Due to rounding errors, some item analysis results may not add up to 100%.

(7) When revising the tests the initial few questions on each test may be questions with difficulty indexes in the order of 90-100. This has the effect of unfreezing students and helping to obtain the true performance of each pupil.

(8) The table of ideal item difficulties (Thordike, et al., 1969), the recommended statistical measures, and the comments given above, are based on norm-referenced test development for first language students. No comparable data exist for second language learners. Some caution is advised therefore in the strict application of these criterion in evaluating second language measures of achievement.

General Recommendations for Revisions

Test Validity. Currently the subtests' of the MTEA claim for validity depends upon their face validity and their curricular validity gained through the subtests' parallelling the Tate Oral English syllabus. Changes in items therefore should maintain the two types of validity.

Parallel Forms. Both forms of the test (A & B) should be kept as similar as possible in terms of content, length and type of questions. Levels of the Tate syllabus should be equated where possible across forms. In revising or deleting items in one form of the test, the effect on the statistical data of this form must be kept comparable to that of the parallel form. While the norming process will create statistically equivalent scores for each form, it is desirable to minimize the need for this form of adjustment.

Test Reliabilities. A summary of the test reliabilities (KR_{20}) given in Table 2 indicates that the tests in their present form have for the most part internal consistancies in the range appropriate for achievement tests. Two strategies have been suggested for improving test reliabilities.

TABLE 2

MTEA Subtest KR20's by Subtest, Form and Grade

	6th		7th		8th		9th		10th	
	A	B	A	B	A	B	A	B	A	B
ORAL	.82	.82	.77	.87	.84	.73	.77	.78	.88	.48
STRUCTURE	.87	.87	.89	.92	.93	.90	.92	.89	.89	.92
READING	.72	.64	.77	.81	.84	.83	.81	.77	.78	.70

(1) Item revisions as suggested in Appendices A-F.

(2) Reduce tests I and II by 5 to 10 items on both forms. This should help improve reliabilities in two ways: (a) some items can not be meaningfully revised and there is little guarantee a replacement item would be better, and (b) a shorter test should be less time consuming and less tiring for students.

The current test results were examined to illustrate the effect of shortening the test. Ten items were deleted from 8th grade test results on tests I and II forms A & B using statistics (i.e. low point-biserial item-[illegible]le correlations) as criterion. The results, presented in Table 3, indicate no change or a slight increase in reliability estimates.

TABLE 3

Grade 8 MTEA Subtest KR20's by Form for Different Length Tests

	Total	Oral	Structure	Reading
FORM A				
MTEA	.95	.84	.93	.84
NEW*	.96	.85	.94	.84
FORM B				
MTEA	.93	.73	.90	.83
NEW*	.93	.76	.90	.83

* Ten weak items dropped from Oral and Structure subtests

This is encouraging in that generally longer tests are more reliable. For example, reducing a 60 item test to 50 items would normally reduce a reliability coefficient of .80 to .77, while reducing a 50 item to a 40 item test would reduce its reliability from .80 to .76. However, when poor items are deleted, this reduction may not occur. While the actual effect of such a reduction could only be determined during a retest using the shorter version of the test, the prospects are encouraging.

Subtest Intercorrelations. Student scores on the three subtests were intercorrelated to ascertain whether to retain all three subtests as separate measures. Table 4 presents the intercorrelations for the same 8th grade students reported in Table 3.

TABLE 4

Grade 8 MTEA Subtest Intercorrelations by Form for Different Length Tests

	N	Oral vs Structure	Oral vs Reading	Structure vs Reading
FORM A				
MTEA	107	.776	.614	.762
NEW*	107	.759	.605	.761
FORM B				
MTEA	68	.601	.621	.710
NEW*	68	.600	.623	.697

* Ten weak items dropped from Oral and Structure subtests.

These correlations, ranging from .60 to .78, indicate that the subtests do to a substantial degree measure different aspects of English. The amount of variance in common between any two subtests ranges from 36% to 60%, and does not indicate they should be combined. As might be expected, the Oral subtest is least highly correlated and Form B, the one most recently used and revised has lower inter-test correlations. As Table 4 indicates, the "revised" subtests correlate in a manner similar to the original MTEA subtests.

By way of comparison, Table 5 provides subtest correlations for the Michigan Test of English Language Proficiency (MTELP) for 5 classes of high school seniors from American Samoa in 1971. Although there is more variability, nine of the 15 correlations fall in the upper range (.71 - .77) or above the MTEA data. This would seem to indicate that the subtests of the MTEA are at least as independent as those of the MTELP.

TABLE 5

Correlations between 3 MTELP Subtests for
5 Schools from American Samoa-November 1971

School	N	Grammar vs Vocabulary	Grammar vs Reading	Vocabulary vs Reading
Fagaitua	54	.49	.40	.36
Leone	56	.77	.50	.53
Manua	22	.72	.46	.76
Marist	21	.85	.71	.86
Samoana	47	.90	.75	.78

Summary Recommendations

1. Use the item analysis data to revise items, taking care to retain curricular validity and to maintain or increase structural and content similarities between the two forms of the test.
2. Delete 5 to 10 items from parts I and II of both forms of the test which seem to be difficult to revise or which are too easy or too difficult to salvage. A revised test of 125 questions might result.
3. Give a pilot form of the test to a small sample of perhaps 50 eighth graders (for each form) and examine the effects of changes made in 1 and 2 above. Make minor adjustments as necessary.
4. Prepare the final versions of the tests and give the parallel forms in October and May for the development of local norms.

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Veldman, D. *FORTRAN Programming for the Behavioural Sciences*, New York: Holt, Rinehart and Winston, 1967.

APPENDIX A

SUMMARY STATISTICS

MTEA PART I - LISTENING COMPREHENSION

FORM A - OCTOBER, 1976

50 ITEMS

	6th	7th	8th	9th	10th
N. Subjects	72	100	107	92	31
Mean	30.47	31.85	36.43	39.23	40.16
Standard Deviation	6.87	6.07	6.68	5.28	6.65
Reliabilities					
Split Half	.80	.81	.83	.79	.90
SE_{MEAS}	3.10	2.64	2.79	2.43	2.12
KR_{20}	.82	.77	.84	.77	.88
SE_{MEAS}	2.86	2.89	2.69	2.51	2.34

Average Difficulty for Items by Subsection

TATE OE 8 (N=10)	.64	.67	.80	.86	.91
TATE OE 9 (N=6)	.76	.78	.79	.82	.82
TATE OE 10 (N=7)	.66	.71	.78	.82	.78
TATE OE 11 (N=8)	.44	.57	.61	.64	.72
TATE OE 12 (N=10)	.57	.61	.69	.77	.72
TATE OE 13 (N=9)	.62	.67	.72	.80	.86

Legend for Item Analysis

Comment	Suggestion
* = Too easy (.90+)	Replace with item of more appropriate content.
** = Adequate item	
*** = Too difficult (.30-)	Has material been covered? Consider replacing.
+A = Weak distractor (A)	Replace distractor with more attractive alternative.
++A = Ambiguous (Option A)	More than one (seemingly) correct answer.
+++ = Weak discrimination	Adequate item, but as easy for good as poor students. Minor modifications could improve it.

This legend system has been devised to provide as much information about each item by grade as possible.

In revising each item, focus your attention on the grade level(s) for which the test (and eventually norms) is primarily intended.

Any of the questions marked with a "+" symbol are judged to be adequate items if it is possible to revise the weakness specified.

ITEM ANALYSIS FOR MTEA PART I - FORM A OCTOBER 1976 .

Item			6th (72)		7th (100)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
			Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
1.	She's bending down between the chairs.												**	+C	+C	**	*
	(T8)	A.	35	-27	37	-29	21	-55	05	-23	0	0					
		B.*	61	43	62	29	79	55	91	32	100	0					
		C.	03	-11	01	0	01	-02	03	-22	0	0					
		Omit	01	-53	0	0	0	0	0	0	0	0					
2.	He's laughing at her.												**	**	*	**	+C
	(T8)	A.	17	-12	16	-34	07	-19	10	-36	13	-24					
		B.*	78	33	76	40	93	19	88	38	87	24					
		C.	04	-17	07	-17	0	0	02	-12	0	0					
		Omit	01	-53	01	-05	0	0	0	0	0	0					
3.	Somebody ate the other half.												**	**	*	*	*
	(T8)	A.*	88	36	85	31	93	29	95	12	97	11	8th Easy but good.				
		B.	04	-27	05	-13	01	02	02	-08	0	0					
		C.	07	-01	07	-20	06	-33	03	-09	0	0					
		Omit	01	-53	03	-19	0	0	0	0	03	-11					
4.	I told you it was too big.												**	**	**	**	*
	(T8)	A.	06	-11	07	-08	07	-16	05	-08	03	08					
		B.	07	-26	11	-15	05	-19	04	-12	0	0					
		C.*	83	42	80	20	88	25	90	15	97	-08					
		Omit	04	-34	02	-08	0	0	0	0	0	0					
5.	Here's a pair of trees.												**	**	**	**	**
	(T8)	A.	19	-21	16	-25	07	-24	14	-30	03	-69					
		B.*	39	39	49	34	72	55	80	44	87	53					
		C.	40	-10	35	-16	20	-44	05	-32	10	-19					
		Omit	01	-53	0	0	01	-09	0	0	0	0					

Item		6th (72)		7th (100)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
6. The book is bigger than the ball.												**	**	*	*	*
(T8)	A.	08	-13	10	-36	03	-16	07	-09	0	0	8th Easy but good.				
	B.	03	-07	04	-33	04	-21	0	0	0	0					
	C.*	86	36	86	50	93	27	93	09	100	0					
	Omit	03	-45	0	0	0	0	0	0	0	0					
7. It's his.												**	**	*	**	*
(T8)	A.	10	-05	14	-35	02	-08	07	-54	0	0	8th Easy but good.				
	B.*	69	39	75	34	93	23	89	45	100	0					
	C.	17	-25	11	-09	05	-21	04	-04	0	0					
	Omit	04	-37	0	0	0	0	0	0	0	0					
8. Both pencils are blunt.												**	**	**	**	**
(T8)	A.*	47	50	50	53	52	47	72	48	68	38					
	B.	35	-29	32	-23	37	-43	22	-37	10	07					
	C.	15	-10	18	-40	09	-06	07	-25	23	-48					
	Omit	03	-44	0	0	01	-06	0	0	0	0					
9. He hasn't found the book yet.												**	+++	+++	+++	+++
(T12)	A.	01	-16	09	-20	05	-02	01	07	0	0	Look at Option A.				
	B.	18	-12	19	-03	17	-23	09	-01	13	0					
	C.*	79	32	72	15	79	22	90	-01	87	0					
	Omit	01	-53	0	0	0	0	0	0	0	0					
10. He's standing by himself.												*	*	*	*	*
(T9)	A.	0	0	03	-29	01	-06	0	0	06	-72	Replace				
	B.	03	-18	04	-25	04	-26	02	-15	0	0					
	C.*	96	46	92	42	95	27	98	15	94	72					
	Omit	01	-53	01	-16	0	0	0	0	0	0					

Item			6th (72)		7th (100)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
			Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
11.	There's plenty of milk in the cans.												+C	**	**	+C	**
	(T13)	A.*	60	28	49	23	58	41	59	35	58	36					
		B.	39	-15	48	-11	40	-39	41	-35	39	-12					
		C.	0	0	02	-29	02	-08	0	0	03	-69					
		Omit	01	-53	01	-20	0	0	0	0	0	0					
12.	When the ball hits the bottle, it'll fall.												***	***	**	**	**
	(T11)	A.	35	08	44	-09	27	-36	18	-27	06	-36					
		B.*	25	35	28	40	55	54	67	55	84	60					
		C.	39	-26	27	-26	18	-28	13	-39	10	-45					
		Omit	01	-53	01	-20	0	0	01	-20	0	0					
13.	It makes the least noise.												++C	++C	**	**	**
	(T8)	A.*	17	32	20	07	49	42	62	29	77	25					
		B.	47	-17	33	-05	30	-05	21	-12	13	-30					
		C.	35	06	46	04	21	-43	17	-24	10	-01					
		Omit	01	-53	01	-20	01	-17	0	0	0	0					
14.	Tom told him to stop, but he went on walking.												**	*	*	*	*
	(T10)	A.*	88	42	93	37	97	10	97	30	97	69					
		B.	04	-23	01	13	01	07	0	0	03	-69					
		C.	06	-17	05	-40	02	-16	03	-30	0	0					
		Omit	01	-53	01	-20	0	0	0	0	0	0					
15.	Someone has already taken a walk.												**	**	**	**	*
	(T13)	A.	19	-32	21	-33	12	-22	07	-36	03	-69					
		B.	04	-10	03	-27	01	-18	01	-32	0	0					
		C.*	75	48	75	46	86	29	92	46	97	69					
		Omit	01	-53	01	-20	01	-12	0	0	0	0					

A5

Item		6th (72)		7th (100)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
16. She's already picked up a glass.												**	++C	**	**	**
(T11)	A.*	49	34	60	21	72	30	75	23	77	27					
	B.	31	-27	16	-30	11	-16	09	-08	06	09					
	C.	19	04	23	07	17	-22	16	-21	16	-37					
	Omit	01	-53	01	-20	0	0	0	0	0	0					
17. These circles are the same shape but a different size.												**	**	**	**	**
(T10)	A.	25	-31	09	-26	12	-37	03	-25	06	-62					
	B.*	60	44	79	37	80	43	84	28	68	37					
	C.	14	-05	11	-18	07	-19	13	-17	26	-05					
	Omit	01	-53	01	-20	0	0	0	0	0	0					
18. He's asking if he can sit down next to her.												**	**	*	*	*
(T8)	A.	10	-15	03	-11	03	-26	02	-15	03	-69	8th-9th Good but easy.				
	B.*	76	35	85	36	93	34	96	24	97	69					
	C.	13	-13	12	-34	04	-22	02	-19	0	0					
	Omit	01	-53	0	0	0	0	0	0	0	0					
19. Mary has a round face and black hair.												**	+++	**	*	*
(T9)	A.	06	-04	02	-14	06	-16	05	-21	0	0					
	B.	07	-15	11	-12	07	-35	01	02	06	-58					
	C.*	86	32	87	17	87	38	93	19	94	58					
	Omit	01	-53	0	0	0	0	0	0	0	0					
20. You'll be able to write straight because of the lines.												+++	*	*	*	*
(T10)	A.	06	06	03	-29	05	-17	01	-06	0	0	Replace.				
	B.	11	-02	03	-23	05	04	03	-15	06	-66					
	C.*	82	14	93	37	91	10	96	16	94	66					
	Omit	01	-53	01	-08	0	0	0	0	0	0					

Item		6th (72)		7th (100)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
21. Choose the knife with the sharpest point												**	**	*	*	*
(T10)	A.	08	-22	03	-19	04	-28	02	-49	0	0	8th-9th Good but easy.				
	B.	10	-35	08	-37	04	-24	01	-12	0	0					
	C.*	81	57	89	42	93	37	97	47	100	0					
	Omit	01	-53	0	0	0	0	0	0	0	0					
22. They both look empty.												**	**	**	**	*
(T11)	A.	29	-17	35	-37	26	-41	21	-30	0	0					
	B.*	61	46	60	46	71	50	78	31	94	72					
	C.	08	-32	05	-21	03	-29	01	-06	06	-72					
	Omit	01	-53	0	0	0	0	0	0	0	0					
23. She has as many cans as he does.												***	***	**	**	**
(T10)	A.	58	-15	57	-33	40	-34	39	-45	45	-05	Option C may be ambiguous.				
	B.*	28	26	23	37	42	49	49	51	32	48					
	C.	13	06	20	03	18	-20	12	-11	23	-48					
	Omit	01	-53	0	0	0	0	0	0	0	0					
24. She's covering her eyes with her hands.												*	*	*	*	*
(T10)	A.*	94	26	96	46	99	08	98	13	97	69	Replace				
	B.	03	-04	03	-43	0	0	01	-18	03	-69					
	C.	01	-06	01	-16	0	0	01	0	0	0					
	Omit	01	-53	0	0	01	-08	0	0	0	0					
25. He hasn't eaten yet.												**	**	+C	*	**
(T12)	A.	10	-13	08	-42	0	0	02	09	06	-18					
	B.	08	-06	05	-01	11	-11	07	-05	10	-50					
	C.*	81	29	87	35	89	11	91	0	84	53					
	Omit	01	-53	0	0	0	0	0	0	0	0					

Item			6th (72)		7th (100)		8th (107		9th (92)		10th (31)		Comments/Suggestions				
			Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
26.	She doesn't have enough books for both children.												***	**	**	**	**
(T10)		A.	11	-31	03	-40	04	-23	03	-17	03	-69					
		B.	54	11	75	-18	53	-33	51	-27	39	-04					
		C.*	32	26	22	35	42	43	46	33	58	29					
		Omit	03	-48	0	0	01	-04	0	0	0	0					
27.	She's going by the bike.												++B	**	++B	++B	++B
(T9)		A.*	32	15	53	31	37	-15	29	0	35	10	Distinction between by the bike and by bike not clear.				
		B.	54	06	35	-24	54	31	66	06	58	11					
		C.	13	-11	12	-12	08	-29	04	-14	06	-42					
		Omit	01	-53	0	0	0	0	0	0	0	0					
28.	There are flowers around the car.												**	**	**	+++	**
(T13)		A.	26	-03	27	-19	13	-34	12	-18	10	-17					
		B.*	67	30	71	26	86	33	87	18	87	52					
		C.	06	-29	02	-24	01	01	01	-02	03	-69					
		Omit	01	-53	0	0	0	0	0	0	0	0					
29.	Maria doesn't have as much milk as John.												**	**	**	*	*
(T9)		A.*	88	44	87	43	88	40	92	32	94	64	9th - Easy but good.				
		B.	04	-15	08	-26	04	-09	03	-12	06	-64					
		C.	07	-21	04	-23	08	-41	03	-33	0	0					
		Omit	01	-53	01	-28	0	0	01	-02	0	0					
30.	He has twice as many pencils.												***	**	**	**	**
(T11)		A.*	28	27	47	37	57	41	62	35	74	56					
		B.	47	-14	37	-25	23	-25	20	-15	16	-68					
		C.	24	02	16	-18	19	-22	18	-29	10	02					
		Omit	01	-53	0	0	0	0	0	0	0	0					

Item			6th		7th		8th		9th		10th		Comments/Suggestions				
			(72)		(100)		(107)		(92)		(31)						
			Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
31.	The clock is below the flowers.												**	**	**	**	+B
	(T12)	A.*	44	34	37	34	56	51	75	35	61	30					
		B.	21	-36	30	-23	15	-40	09	-23	0	0					
		C.	33	08	33	-13	29	-24	16	-24	39	-30					
		Omit	01	-53	0	0	0	0	0	0	0	0					
32.	He's ready to push the cans.												**	**	*	*	**
	(T13)	A.	07	-01	03	-08	06	05	02	13	06	-64					
		B.*	86	41	88	34	92	13	96	11	87	54					
		C.	06	-34	09	-33	03	-28	02	-29	06	-11					
		Omit	01	-53	0	0	0	0	0	0	0	0					
33.	Each boy is taking the boxes two at a time.												*	**	+++	*	*
	(T12)	A.*	93	38	84	39	89	16	96	45	100	0					
		B.	01	04	10	-27	03	-08	04	-45	0	0					
		C.	04	-20	06	-26	08	-14	0	0	0	0					
		Omit	01	-53	0	0	0	0	0	0	0	0					
34.	There are several books on the table.												++	+++	+++	+++	+++
	(T12)	A.	07	-02	11	-06	12	-02	16	-21	13	06					
		B.*	85	09	80	24	84	05	80	22	84	0					
		C.	07	13	09	-27	04	-08	03	-05	03	-11					
		Omit	01	-53	0	0	0	0	0	0	0	0					
35.	She gave him all the books except one.												**	**	**	**	**
	(T12)	A.	31	-20	24	-34	17	-39	14	-34	19	-63					
		B.*	58	43	65	42	79	42	79	36	74	49					
		C.	10	-20	11	-18	05	-12	07	-10	06	13					
		Omit	01	-53	0	0	0	0	0	0	0	0					

Item			6th		7th		8th		9th		10th		Comments/Suggestions				
			(72)		(100)		(107)		(92)		(31)						
			Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
36.	He used to work on a ship before becoming a printer.												***	+++	**	**	++B
	(T12)	A.	24	-18	27	04	23	-24	35	-28	19	-53					
		B.	46	0	38	-10	33	-14	14	-02	23	13					
		C.*	29	31	34	12	44	34	51	28	55	38					
		Omit	01	-53	01	-28	0	0	0	0	3	-20					
37.	It's between the girls.												***	**	++C	++C	++C
	(T11)	A.*	19	29	31	30	42	43	42	43	42	45					
		B.	78	-14	62	-21	57	-40	58	-43	55	-38					
		C.	0	0	07	-15	01	-17	0	0	03	-20					
		Omit	03	-34	0	0	0	0	0	0	0	0					
38.	If there were anyone in there, we'd see him.												**	+++	**	**	*
	(T13)	A.	17	-08	11	-14	07	-15	04	-16	06	-28					
		B.	31	-06	30	-02	21	-32	15	-18	03	05					
		C.*	51	23	59	11	73	37	80	24	90	20					
		Omit	01	-53	0	0	0	0	0	0	0	0					
39.	Ruth will read until he leaves.												***	++C	**	**	++C
	(T12)	A.	56	23	34	-08	32	-31	28	-53	26	-72	Guessing occurring.				
		B.*	29	13	46	01	48	38	63	40	42	50					
		C.	14	-32	20	09	21	-12	09	15	32	15					
		Omit	01	-53	0	0	0	0	0	0	0	0					
40.	He has just dropped a book.												+A	+A	+A	+A	+A
	(T11)	A.	0	0	01	-06	0	0	01	-06	0	0	Option A should at the floor.				
		B.*	72	04	61	03	74	24	71	10	68	30					
		C.	26	10	37	02	26	-24	28	-08	32	-30					
		Omit	01	-53	01	-18	0	0	0	0	0	0					

Item			6th (72)		7th (100)		8th (107)		9th (92)		10th (31)		**Comments/Suggestions**				
			Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
41.	He's not allowed to drive.												**	**	**	*	*
	(T9)	A.	10	-08	12	-25	06	-23	0	0	0	0					
		B.	15	-11	20	-11	11	-10	05	-28	06	-44					
		C.*	74	29	68	27	83	23	95	28	90	48					
		Omit	01	-53	0	0	0	0	0	0	03	-20					
42.	The first rope is half as long as the third.												**	+++	++C	**	**
	(T12)	A.*	35	25	45	13	51	29	57	38	55	26	Perspective problems for some students due to diagonal layout.				
		B.	51	-11	36	-15	29	-40	25	-23	32	-16					
		C.	13	-01	19	02	20	10	18	-23	13	-15					
		Omit	01	-53	0	0	0	0	0	0	0	0					
43.	She's standing under the coconuts.												+A	+++	**	**	+A
	(T9)	A.	01	06	04	-15	07	-27	02	-09	0	0					
		B.	19	-17	14	-13	10	-14	11	-23	16	-35					
		C.*	78	30	82	19	83	29	87	26	84	35					
		Omit	01	-53	0	0	0	0	0	0	0	0					
44.	When he has finished his letter, he'll mail it.												***	***	**	**	**
	(T13)	A.	33	-07	36	-12	20	-30	27	-36	10	-58					
		B.*	19	31	26	21	40	50	57	45	87	62					
		C.	46	-05	38	-07	40	-25	16	-18	03	-20					
		Omit	01	-53	0	0	0	0	0	0	0	0					
45.	If I could run I would.												**	**	**	**	**
	(T12)	A.*	40	40	57	25	67	58	90	26	81	45					
		B.	26	-17	20	-20	18	-36	08	-21	03	11					
		C.	32	-13	23	-10	15	-38	02	-16	13	-49					
		Omit	01	-53	0	0	0	0	0	0	03	-20					

Item			6th (72)		7th (100)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
			Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
46.	Tom's car looks like a bug.												**	**	**	+++	**
	(T11)	A.*	76	24	84	31	84	34	88	21	84	37					
		B.	10	-04	04	-43	05	-13	05	-03	10	-48					
		C.	13	-09	11	-11	11	-31	05	-13	06	03					
		Omit	01	-53	01	07	0	0	01	-20	0	0					
47.	Somebody has already fixed the door.												*	*	*	*	*
	(T13)	A.	0	0	09	-18	02	05	0	0	06	-64	Replace				
		B.	04	-13	0	0	05	-11	01	02	0	0					
		C.*	94	38	91	18	93	06	99	-02	94	64					
		Omit	01	-53	0	0	0	0	0	0	0	0					
48.	He used a hammer to open the box.												***	***	**	**	+B
	(T11)	A.	76	-15	87	05	66	-41	73	-30	48	-44	Are "d" and "s" sounds (use_) easily confused?				
		B.	01	03	03	-29	03	-02	01	-36	0	0					
		C.*	21	30	10	10	31	42	26	39	52	44					
		Omit	01	-53	0	0	0	0	0	0	0	0					
49.	She took the showel instead of taking the broom.												**	**	**	**	**
	(T13)	A.	40	-27	45	-31	32	-47	15	-43	06	05	Spelling of shovel.				
		B.*	53	53	55	42	64	54	79	50	87	43					
		C.	06	-32	04	-30	04	-21	05	-21	06	-64					
		Omit	01	-53	0	0	0	0	0	0	0	0					
50.	That man is short; he's also thin.												++B	**	**	**	**
	(T13)	A.	17	-36	30	-20	28	-28	11	-12	03	08	Generally weak discrimination.				
		B.	25	16	19	-16	17	-07	14	-20	10	-30					
		C.*	57	25	51	30	55	30	75	25	87	23					
		Omit	01	-53	0	0	0	0	0	0	0	0					

APPENDIX B

ITEM ANALYSIS FOR

MTEA - STRUCTURE AND VOCABULARY - PART II

FORM A OCTOBER 1976

	6th	7th	8th	9th	10th
N Subjects	65[1]	93[1]	107	92	31
Mean	24.15	25.90	33.23	37.10	40.48
S.D.	9.21	9.22	12.13	10.95	8.60
Reliabilities					
Split-Half	.88	.90	.92	.93	.87
SE_{MEAS}	3.22	3.18	3.42	2.86	3.12
KR_{20}	.87	.89	.93	.92	.89
SE_{MEAS}	3.30	3.28	3.17	3.09	2.88

[1] Seven students who answered Part I did not answer any questions for Part II.

Legend for Item Analysis

Comment	Suggestion
* = Too easy (.90+)	Replace with item of more appropriate content.
** = Adequate item	
*** = Too difficult (.30-)	Has material been covered? Consider replacing.
+A = Weak distractor (A)	Replace distractor with more attractive alternative.
++A = Ambiguous (Option A)	More than one (seemingly) correct answer.
+++ = Weak discrimination	Adequate item, but as easy for good as poor students. Minor modifications could improve it.

This legend system has been devised to provide as much information about each item by grade as possible.

In revising each item, focus your attention on the grade level(s) for which the test (and eventually norms) is primarily intended.

Any of the questions marked with a "+" symbol are judged to be adequate items if it is possible to revise the weakness specified.

ITEM ANALYSIS FOR MTEA PART II - FORM A OCTOBER 1976

Item		6th		7th		8th		9th		10th		**Comments/Suggestions**				
		(65)		(93)		(107)		(92)		(31)		6	7	8	9	10
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs					
1. ... boat. It's 16 feet _____ .												*	+D	*	+D	+D
long	A.*	92	32	88	30	96	17	88	10	90	25	Replace "strong" with "tall".				
big	B.	03	-23	11	-29	02	-21	05	-16	03	-35					
length	C.	03	16	01	-07	01	-01	07	02	06	-05					
strong	D.	02	-17	0	0	01	01	0	0	0	0					
2. ... in a little while. We'll go outside _____ .												**	+D	+D	+D	*
some	A.	03	-10	03	-10	02	-14	02	-27	0	0	Replace "out" with "now". ✓				
soon	B.*	71	47	82	31	87	49	90	46	94	-20					
yet	C.	18	-34	14	-24	10	-43	07	-31	06	20					
out	D.	06	-21	0	0	01	-15	01	-18	0	0					
	Omit	02	-12	01	-21	0	0	0	0	0	0					
3. He doesn't know _____ from Yap.												**	**	**	**	**
anybody	A.*	49	40	55	42	59	44	76	63	71	42					
somebody	B.	14	-33	08	-17	12	-25	02	-25	10	-34					
someone	C.	15	-22	19	-12	14	-15	05	-20	13	-16					
anything	D.	20	03	17	-25	15	-24	16	-50	06	-15					
	Omit	02	-15	01	-21	0	0	0	0	0	0					
4. Is there a girl near the car? Yes, _____ is.												***	***	**	**	+++
she	A.	49	-15	43	-20	29	-40	28	-42	16	-42	Option D weak. Replace "he" with "her".				
it	B.	28	-04	28	-05	23	-24	21	-24	39	13					
there	C.*	20	28	27	35	47	58	48	66	45	19					
he	D.	02	-15	01	-08	01	-06	02	-16	0	0					
	Omit	02	01	01	-21	0	0	01	-18	0	0					

Item		6th (65)		7th (93)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
5. How many months are there _____ a year?												**	**	**	+D	+CD
for	A.	23	-29	22	-17	21	-31	08	-41	16	-44	Option D weak. Replace "with" with "of".				
in	B.*	58	40	67	37	74	43	90	43	84	44					
on	C.	12	-09	06	-20	05	-25	02	-13	0	0					
with	D.	06	-19	04	-25	01	-14	0	0	0	0					
	Omit	0	0	01	-01	0	0	0	0	0	0					
6. Bill is walking _____ the road.												**	**	*	*	*
for	A.	08	-19	03	02	01	-16	03	-24	0	0	8th, 9th good but easy. Use as a "starter" item.				
under	B.	08	-11	03	-16	03	-24	03	-09	0	0					
along	C.*	78	36	89	25	94	34	92	27	100	0					
with	D.	06	-29	03	-18	02	-18	01	-17	0	0					
	Omit	0	0	01	-21	0	0	0	0	0	0					
7. The doctor is _____ busy to go home and sleep.												+++	++A ++B	++A ++B	++A	***
very	A.	57	-14	49	03	56	-03	53	10	65	-11	Not taught? Guessing by best students.				
so	B.	11	08	10	07	09	03	13	-20	06	0					
always	C.	18	11	17	-19	18	-20	11	-18	06	-46					
too	D.*	14	01	23	13	17	22	22	22	23	39					
	Omit	0	0	01	-21	0	0	01	-18	0	0					
8. Are there two boys? Yes, _____ are.												**	++D +A	+AC	+AC	+A
that	A.	03	-18	0	0	01	-06	01	-04	0	0	Replace "that" with "those".				
there	B.*	37	50	42	04	49	41	49	38	35	31					
them	C.	11	-29	06	-20	02	-06	01	-18	03	-52					
they	D.	49	-24	51	10	49	-38	49	-33	61	-12					
	Omit	0	0	01	-21	0	0	0	0	0	0					

Item		6th (65)		7th (93)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
9. When Tom dropped his pencil, you _____ it up for him.												++C ++D	+++	+A	+A	++C
picking	A.	14	-28	04	-26	01	-15	01	-16	0	0	Difficult item.				
picked	B.*	34	-19	24	22	36	29	45	27	26	-01					
will pick	C.	18	30	32	-03	35	-12	32	-06	45	22					
pick	D.	34	15	39	-01	28	-15	23	-21	29	-23					
	Omit	0	0	01	-21	0	0	0	0	0	0					
10. John's mother is angry _____ him.												**	**	**	**	*
for	A.	11	-24	11	-29	07	-33	04	-04	0	0					
at	B.*	69	40	72	47	81	35	87	22	94	08					
to	C.	15	-22	13	-2[illegible]	10	-24	08	-26	03	-01					
of	D.	05	-13	03	-16	02	15	01	03	03	-10					
	Omit	0	0	01	-21	0	0	0	0	0	0					
11. This isn't my bag. This bag _____ to Tom.												**	**	*	*	*
is	A.	14	-30	14	-18	05	-31	05	-34	0	0	8th good but easy.				
shows	B.	08	-27	03	-16	01	-12	0	0	0	0					
belongs	C.*	75	43	76	41	93	37	93	38	97	52					
gives	D.	03	-05	05	-28	01	-15	01	-16	03	-52					
	Omit	0	0	01	-21	0	0	0	0	0	0					
12. Look over there. There _____ any birds in the tree now.												***	**	**	++C	++C
are	A.	54	-46	32	-24	22	-50	23	-33	06	-66					
were	B.	12	-07	19	-21	09	-24	08	-30	19	-07					
weren't	C.	15	09	09	04	14	01	18	14	39	29					
aren't	D.*	18	56	39	42	54	56	51	33	35	09					
	Omit	0	0	01	-21	0	0	0	0	0	0					

Item		6th		7th		8th		9th		10th		Comments/Suggestions				
		(65)		(93)		(107)		(92)		(31)						
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
13. John was blowing a balloon. It got _____ and them it broke.												**	**	**	**	**
bigger	A.*	78	26	61	44	71	45	85	44	84	59	"blowing" = "blowing up" "them" = "then"				
blow	B.	06	-28	13	-29	03	-14	04	-24	03	-39					
upper	C.	03	-14	06	-13	05	-18	02	-16	06	-44					
biggest	D.	12	-05	18	-16	21	-35	09	-30	06	-15					
	Omit	0	0	01	-21	0	0	0	0	0	0					
14. John is going to the hospital, because he cut _____ with glass.												**	**	**	**	*
his self	A.	22	-11	16	-10	19	-16	07	-23	0	0					
herself	B.	05	-04	06	-21	03	-01	02	-29	03	-10					
him	C.	08	-24	12	-34	05	-23	02	01	0	0					
himself	D.*	66	25	65	46	74	26	88	27	94	44					
	Omit	0	0	01	-21	0	0	01	09	03	-52					
15. _____ there a jet at the airport this morning. I heard ...												***	***	***	***	+D
Are	A.	38	-15	26	-14	10	-36	07	-31	03	-35					
Is	B.	49	-17	51	-05	53	-11	57	-24	39	-47					
Was	C.*	08	47	16	45	30	45	29	47	58	59					
Were	D.	05	16	06	-24	07	-17	08	-07	0	0					
	Omit	0	0	01	-21	0	0	0	0	0	0					
16. When she comes home, we _____ .												+++	+++	+++	**	+A
went	A.	08	-18	08	04	07	-14	05	-25	0	0					
will eat	B.*	52	17	57	18	69	21	74	30	81	31					
ate	C.	23	-11	15	-11	09	-20	11	-11	13	11					
left	D.	17	03	19	-10	15	0	11	-11	13	11					
	Omit	0	0	01	-21	0	0	0	0	0	0					

Item		6th		7th		8th		9th		10th		Comments/Suggestions				
		(65)		(93)		(107)		(92)		(31)						
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
17. Can you _____ the picture larger?												**	**	**	**	+D
try	A.	09	-22	06	-10	07	-24	11	-23	06	-35					
do	B.	18	-35	14	-30	09	-31	04	-15	16	-45					
make	C.*	55	59	59	52	75	50	78	39	77	61					
find	D.	17	-25	19	-27	08	-23	07	-24	0	0					
	Omit	0	0	01	-21	0	0	0	0	0	0					
18. _____ cars at church yesterday.												++A	***	++A	***	***
They were	A.	62	15	54	-13	49	02	62	-15	61	-02					
There are	B.	23	-14	25	-15	24	-15	13	-09	13	-39					
There weren't	C.*	08	06	11	36	19	23	17	31	26	32					
They aren't	D.	08	-12	11	06	07	-13	08	-05	0	0					
	Omit	0	0	0	0	01	-01	0	0	0	0					
19. That little girl isn't afraid _____ dogs.												**	**	**	**	**
for	A.	17	-35	10	-23	07	-28	08	-34	06	-23					
at	B.	26	03	27	-16	18	-45	10	-21	10	-37					
to	C.	17	-18	20	-21	11	-26	02	-23	03	-52					
of	D.*	38	37	42	49	64	68	80	47	81	66					
	Omit	02	01	01	-21	0	0	0	0	0	0					
20. Please don't take these glasses from the children. Those are _____ .												**	**	**	**	+C
theirs	A.*	48	62	45	51	64	72	76	56	84	53					
them	B.	28	-34	19	-19	16	-46	05	-33	10	-48					
their	C.	09	-26	13	-31	04	-20	03	-02	0	0					
themselves	D.	14	-20	23	-18	17	-37	15	-45	06	-21					
	Omit	02	-12	0	0	0	0	0	0	0	0					

Item		6th (65)		7th (93)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
21. He is _____ sick on rainy days.												**	**	**	**	**
many times	A.	25	-29	08	-18	16	-29	03	-26	06	-03					
much	B.	25	-20	27	-16	24	-35	20	-20	13	-57					
often	C.*	35	57	52	40	53	67	68	48	77	62					
a lot	D.	15	-17	13	-18	07	-32	09	-34	03	-35					
	Omit	0	0	01	-21	0	0	0	0	0	0					
22. Are you _____ play at night.												**	**	+B	+B	+B
allowed to	A.*	57	48	49	62	73	64	79	67	74	63	Put "to" in the stem. Replace option B.				
let to	B.	06	-25	06	-13	0	0	01	-13	0	0					
want to	C.	14	-23	18	-26	09	-28	03	-34	16	-66					
like to	D.	23	-23	25	-36	18	-54	16	-54	10	-12					
	Omit	0	0	01	-21	0	0	0	0	0	0					
23. Bill _____ fish for dinner yesterday.												**	**	**	**	**
is eating	A.	26	-15	23	-28	19	-23	10	-27	03	-03					
will eat	B.	15	-19	12	-05	16	-26	11	-14	06	-20					
had	C.*	38	47	37	49	53	54	61	63	81	36					
likes	D.	18	-22	28	-18	12	-27	16	-47	10	-30					
	Omit	02	-08	01	-21	0	0	02	-06	0	0					
24. I think Mr. Sablan bought more paint. Now he has _____ you.												***	++B	++B	++B	**
as more as	A.	15	-11	15	-15	06	-11	18	-07	06	-15	May be assuming "cans of", in option B.				
as many as	B.	22	-18	24	05	21	10	21	11	19	-13					
much than	C.	37	01	32	-08	26	-30	25	-37	16	-42					
as much as	D.*	26	24	28	20	46	26	36	31	58	50					
	Omit	0	0	01	-21	01	-12	0	0	0	0					

Item		6th (65) Dif	6th (65) Pbs	7th (93) Dif	7th (93) Pbs	8th (107) Dif	8th (107) Pbs	9th (92) Dif	9th (92) Pbs	10th (31) Dif	10th (31) Pbs	Comments/Suggestions 6	7	8	9	10
25. Maria can cook chicken well, _____ she?												++D	++D	++D	+++	+++
can't	A.*	23	-06	28	10	33	06	35	19	32	0	Haven't learned difference between declarative and interrogative statements.				
will	B.	17	-36	14	-16	06	-28	03	-02	10	-18					
doesn't	C.	15	-11	14	-04	09	-11	14	-05	[illegible]	02					
can	D.	45	41	43	10	52	14	48	-13	45	09					
	Omit	0	0	01	-21	0	0	0	0	0	0					
26. _____ I came to my classroom, I couldn't open the door.												**	**	+B	+B	*
If	A.	34	-22	23	-13	16	-32	17	-31	10	-64	Replace option B, "and" with "while" or "since".				
And	B.	06	-16	03	-18	02	-15	01	-18	0	0					
Because	C.	14	-27	14	-35	10	-32	03	-26	0	0					
When	D.*	46	47	60	43	72	52	78	45	90	64					
27. It's very hot today. I want to _____ off my shirt.												**	**	**	+CD	*
put	A.	20	-34	09	-22	07	-22	11	-30	03	-12					
take	B.*	74	41	81	32	81	28	87	28	94	15					
do	C.	02	-11	05	-23	08	-16	02	0	0	0					
have	D.	05	-13	05	-06	02	-05	0	0	0	0					
	Omit	0	0	0	0	01	01	0	0	03	-10					
28. Joe, please put the broom _____ the corner of the room near the desk.												++D	++D	++D	+C ++D	++D
in	A.*	35	-12	20	-24	20	12	25	-34	03	-35	Both A & D are correct(?)				
on	B.	11	-24	19	-15	13	-31	04	-07	06	-18					
to	C.	09	01	09	06	07	-14	0	0	03	-52					
at	D.	45	26	52	28	60	19	71	35	87	59					

Item		6th (65)		7th (93)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
29. What are fishermen? Fishermen are people _____ fish.												***	**	**	+A	**
they	A.	17	-12	05	-12	05	-07	01	-15	03	-52					
want	B.	14	-18	20	-06	12	-25	07	-20	06	-32					
who	C.*	28	29	31	51	50	68	71	71	77	72					
like	D.	42	-04	43	-37	32	-52	22	-63	13	-39					
	Omit	0	0	0	0	01	-05	0	0	0	0					
30. I _____ dropped the jug. But I didn't fall down.												++D	++D	**	**	**
nearly	A.*	38	17	24	19	50	39	54	43	74	25	Replace D (?).				
clearly	B.	17	-33	20	-32	16	-25	07	-23	03	07					
loudly	C.	06	-17	12	-14	06	-17	05	-15	06	-32					
hardly	D.	38	17	42	22	28	-15	34	-26	16	-12					
	Omit	0	0	02	-12	0	0	0	0	0	0					
31. He _____ killed the pig for the party.												**	**	**	**	+D
has just	A.*	54	37	45	28	54	70	63	38	74	47					
did	B.	26	-25	26	-12	28	-45	24	-21	23	-35					
will just	C.	17	-19	15	-18	12	-33	09	-18	03	-35					
can just	D.	03	-03	13	-13	06	-19	03	-22	0	0					
	Omit	0	0	01	-21	0	0	01	-02	0	0					
32. I've never seen them before. _____ see them.												++D	***	***	**	++C
I'd like to	A.*	22	32	27	30	29	57	51	60	39	31	Option D is perhaps too like the correct answer.				
I did	B.	20	-35	14	-21	08	-31	08	-35	03	-39					
I liked	C.	09	-20	04	-16	06	-22	05	-17	06	17					
I like to	D.	49	13	54	-01	57	-25	36	-35	52	-25					
	Omit	0	0	01	21	0	0	0	0	0	0					

Item		6th (65)		7th (93)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
33. Tom was ill, _____ he couldn't come to school yesterday.												***	***	**	**	++C
but	A.	43	-14	26	-11	21	-33	22	-26	26	-39					
if	B.	08	-23	08	-16	07	-29	03	-21	06	-38					
because	C.	34	-10	38	-24	29	-19	32	-27	39	36					
so	D.*	15	49	28	50	43	60	43	55	29	20					
	Omit	15	49	28	50	43	60	43	55	29	20					
34. When the police came, the boy _____ running along the beach.												**	**	+++	**	*
kept on	A.*	72	28	72	46	82	17	86	26	90	02					
kept for	B.	08	-27	08	-11	06	-11	04	-05	06	0					
tried for	C.	11	-19	06	-22	05	-25	02	-23	0	0					
went up	D.	09	03	13	-30	07	06	07	-22	03	-03					
	Omit	0	0	01	-21	01	-01	01	06	0	0					
35. hammer. He can _____ you one for a few days.												***	++A	**	**	**
borrow	A.	43	-07	49	04	30	-33	34	-55	13	-43					
have	B.	17	-19	12	-22	16	-33	04	-14	03	-18					
buy	C.	11	-24	12	-21	12	-28	04	-24	03	-52					
lend	D.*	29	39	26	32	42	73	57	67	81	67					
	Omit	0	0	01	-21	0	0	01	06	0	0					
36. A fish doesn't walk. A fish _____ .												***	***	**	**	**
was swimming	A.	23	-12	29	-37	19	-34	12	-53	03	-39					
is swimming	B.	40	-02	41	-02	36	-22	24	-42	19	-31					
swims	C.*	22	45	23	55	42	50	54	77	71	56					
swim	D.	15	-34	08	-21	04	-05	10	-11	06	-24					

Item		6th (65)		7th (93)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
37. I don't want to walk to the airport. Let's go there _____ .												***	**	**	**	+B
by the bus	A.	34	-06	33	-03	29	-24	27	-26	23	-52					
on foot	B.	15	-23	06	-20	05	-18	04	-12	0	0					
by bus	C.*	23	21	37	44	50	60	59	54	71	44					
for the car	D.	28	06	24	-36	16	-42	10	-43	06	06					
	Omit	0	0	0	0	0	0	0	0	0	0					
38. Will you help? You can do _____ .												**	**	**	**	**
the digging	A.*	32	50	33	39	51	60	62	70	84	57					
digging	B.	28	-20	17	-14	12	-25	11	-18	06	-54					
a digging ...	C.	15	-17	23	-04	16	-35	09	-26	06	06					
dig the hole	D.	25	-19	25	-19	21	-23	17	-51	03	-52					
	Omit	0	0	02	-22	0	0	01	-17	0	0					
39. I can't chop the wood. I _____ an axe.												**	**	**	+C	*
use	A.	32	-29	24	-25	15	-42	15	-47	03	-16					
need	B.*	45	50	59	48	76	60	78	57	94	49					
like	C.	14	-28	10	-32	06	-27	01	-04	0	0					
have	D.	09	-06	05	-01	04	-26	05	-26	03	-52					
	Omit	0	0	02	-22	0	0	0	0	0	0					
40. My sister was _____ that she saw an airplane ...												++D	***	**	**	++D
certain	A.*	23	14	26	26	41	40	40	49	42	43	7th guessing.				
know	B.	29	-38	27	-30	11	-33	07	-18	06	-20					
seeing	C.	11	-15	13	04	17	-25	11	-35	13	-50					
there	D.	37	33	32	09	31	01	41	-14	39	01					
	Omit	0	0	02	-22	0	0	01	-13	0	0					

Item		6th		7th		8th		9th		10th		Comments/Suggestions				
		(65)		(93)		(107)		(92)		(31)						
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
41. I can't go to the movie with you. I _____ work soon.												**	**	**	**	*
like	A.	17	-31	11	-40	05	-23	02	-25	0	0					
can	B.	23	-35	09	-18	09	-29	08	-34	03	-35					
have to	C.*	55	59	72	53	79	46	85	44	97	35					
went to	D.	05	-14	05	-10	06	-20	05	-14	0	0					
	Omit	0	0	03	-25	01	-06	0	0	0	0					
42. Tom, you can't find your ring, _____ ?												++D	++D ++A	++D	++D	++D
didn't you	A.	15	-10	14	12	09	04	16	-07	06	09	Put "you" in the stem.				
can you	B.*	40	19	32	-11	43	0	34	18	29	-12					
did you	C.	29	-20	24	-21	12	-27	15	-31	03	-52					
can't you	D.	12	18	24	33	36	17	35	11	61	35					
	Omit	03	-13	06	-16	0	0	0	0	0	0					
43. I can't see what she's doing because her hands are _____ .												**	**	**	+D	+D
from	A.	18	-23	20	-22	13	-13	08	-27	03	-52	Put "the table" in the stem.				
above	B.	29	-03	29	-01	37	-03	38	-09	23	-09					
below	C.*	42	42	38	30	37	32	52	27	71	43					
without	D.	08	-26	11	-09	12	-30	02	-15	0	0					
	Omit	03	-20	02	-16	0	0	0	0	03	-35					
44. Yes, Mr. Santos came to this island before my father. He _____ here a long time.												**	**	**	**	+B
is coming	A.	18	-30	14	-17	10	-31	07	-42	06	-63					
is	B.	29	-16	22	-18	15	-29	05	-20	0	0					
has come	C.	09	-06	12	-02	13	-14	05	-19	10	-35					
has been	D.*	40	49	49	37	62	51	83	51	84	70					
	Omit	03	-20	03	-25	0	0	0	0	0	0					

Item		6th		7th		8th		9th		10th		Comments/Suggestions				
		(65)		(93)		(107)		(92)		(31)						
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
45. _____ he starts eating, we'll eat too. ... together												***	**	**	+D	+D
Before	A.	43	-07	42	-04	37	-39	33	-40	23	-59					
As soon as	B.*	28	40	40	35	50	55	59	49	74	77					
Suddenly	C.	09	-14	08	-19	07	-11	09	-19	03	-52					
Sometimes	D.	14	-14	08	-23	05	-27	0	0	0	0					
	Omit	06	-23	03	-25	0	0	0	0	0	0					
46. How many trash cans? -I think there are _____ ten.												**	**	**	**	*
about	A.*	57	54	70	54	80	51	86	39	94	66					
some	B.	22	-25	09	-30	04	-18	04	-11	03	-52					
many	C.	15	-26	15	-29	09	-37	07	-31	03	-39					
certain	D.	05	-24	03	-10	07	-25	03	-20	0	0					
	Omit	02	-15	03	-25	0	0	0	0	0	0					
47. 5 people and 5 cups. We _____ enough for everybody.												**	**	**	**	**
have exactly	A.*	31	51	33	58	56	68	67	58	84	48					
haven't	B.	38	-13	42	-35	23	-34	17	-45	06	-15					
have less ..	C.	14	-29	10	-18	14	-39	02	-15	03	-10					
have more	D.	14	-11	10	05	07	-23	13	-24	06	-50					
	Omit	03	-23	05	-27	0	0	0	0	0	0					
48. She's wearing a dress _____ .												***	***	**	**	**
who ...	A.	23	-20	18	0	07	-27	05	-16	06	-49					
that ...	B.	31	02	40	-08	41	-31	30	-28	29	-32					
which ...	C.*	20	34	27	39	48	48	60	42	58	51					
when ...	D.	22	-04	10	-24	04	-06	04	-22	06	06					
	Omit	05	-21	05	-27	0	0	0	0	0	0					

Item		6th (65)		7th (93)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
49. He goes to school in Guam. I _____ to Guam too. (have _____ gone)												+++	***	***	**	+D
never	A.	51	-12	37	-01	43	-09	38	-18	32	-45	Put 'have _____ gone" in stem.				
often	B.*	31	14	29	37	26	40	42	35	65	46					
not	C.	06	17	11	-15	07	-15	05	-08	03	-05					
ever	D.	08	03	15	-10	23	-21	14	-19	0	0					
	Omit	05	-25	09	-28	0	0	0	0	0	0					
50. Did you hear that? A stone _____ on the house.												**	**	**	+D	+C
was thrown	A.*	48	38	47	47	59	60	74	51	87	22					
threw	B.	20	-24	20	-15	22	-36	15	-30	10	-20					
is throwing	C.	20	-12	15	-18	12	-32	10	-34	0	0					
can throw	D.	08	02	10	-17	07	-17	01	-15	03	-10					
	Omit	05	-25	08	-22	0	0	0	0	0	0					
51. Tom can't drive. Bill can't drive a car _____ .												***	***	**	**	+C
any	A.	15	-19	12	-21	02	-16	03	-16	03	-35					
too	B.	37	01	43	05	47	-25	53	-17	32	-01					
either	C.	17	-14	11	-21	06	-25	07	-14	0	0					
still	D.*	26	38	25	44	46	41	37	30	65	14					
	Omit	05	-25	10	-26	0	0	0	0	0	0					
52. If I had some matches, _____ a fire ...												++C	++B	++B	++B	++B
I'd light	A.*	26	14	24	13	24	37	33	07	16	23	Too difficult. Guessing.				
I will light	B.	29	-05	33	26	39	09	38	24	52	05					
I can light	C.	22	17	27	-22	27	-29	23	-16	26	-11					
I lit	D.	17	-18	09	-09	08	-23	07	-34	06	-24					
	Omit	06	-17	08	-22	01	-12	0	0	0	0					

Omit		6th (65)		7th (93)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
53. Tell the children to stay _____ the school.												**	**	**	+B	+C
away from	A.*	48	54	57	53	79	42	89	39	90	48					
over from	B.	18	-24	10	-26	07	-32	01	-22	03	-35					
away at	C.	14	-27	09	-03	09	-18	04	-24	0	0					
far for	D.	14	-07	16	-26	09	-18	04	-24	0	0					
	Omit	06	-23	09	-28	01	-12	0	0	0	0					
54. ... never busy. I _____ see anybody go inside.												++D	++D	++D	***	++D
really	A.	26	-34	16	-27	13	-39	07	-35	0	0	May be too difficult for all grades.				
seldom	B.*	15	-11	16	23	24	32	22	46	32	0					
always	C.	12	-01	19	-18	12	-11	07	-13	03	-10					
don't	D.	40	50	39	34	50	08	65	-15	65	03					
	Omit	06	-23	10	-27	01	0	0	0	0	0					
55. It's going to rain. I wish _____ a banana leaf to cover my books.												++A	++A	++A	**	++A
I will find	A.	28	20	41	20	27	08	37	-23	55	12	May be too difficult for most grades.				
I find	B.	28	-15	13	-09	16	-25	12	-12	0	0					
I will have	C.	14	-01	18	-21	19	-29	15	-22	16	-09					
I had	D.*	25	08	17	27	37	37	36	48	29	-06					
	Omit	06	-23	11	-29	01	-12	0	0	0	0					
56. ... in the box? It looks _____ salt.												**	**	**	*	*
like	A.*	57	49	70	58	86	39	91	31	94	63	9th good but easy.				
about	B.	09	-18	09	-24	05	-12	01	-18	06	-63					
some	C.	12	-30	02	-14	03	-24	05	-22	0	0					
it's for	D.	14	-07	09	-31	06	-26	02	-12	0	0					
	Omit	08	-26	11	-29	01	-12	0	0	0	0					

Item		6th (65)		7th (93)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
57. I _____ until the water was hot.												***	++A	++A	**	++D
will wait	A.	52	-01	47	14	50	01	45	-09	48	-31					
waited	B.*	28	20	25	19	32	18	36	41	39	26					
want to wait	C.	06	-24	10	-13	05	-19	07	-30	03	-18					
can wait	D.	08	11	06	-15	13	-14	13	-23	10	21					
	Omit	06	-23	12	-24	0	0	0	0	0	0					
58. I feel clean now because I've _____ a bath.												**	**	**	**	+C
already made	A.	22	-29	15	-24	12	-25	05	-26	06	-54					
just had	B.*	46	47	43	48	59	48	67	39	84	52					
just gone	C.	17	-14	16	-10	10	-28	13	-19	0	0					
already done	D.	09	-04	15	-07	19	-18	14	-16	10	-20					
	Omit	06	-23	11	-29	0	0	0	0	0	0					
59. ... work at night. He has been working _____ 4 o'clock this afternoon.												***	***	**	**	+B
for	A.	25	-11	17	-11	15	-27	10	-29	06	-27					
to	B.	17	-19	11	-20	07	-28	04	-20	0	0					
at	C.	31	04	39	-09	26	-39	28	-42	13	-31					
since	D.*	22	38	22	58	51	69	58	64	81	44					
	Omit	06	-23	12	-30	0	0	0	0	0	0					
60. ... many different students ... But _____ are from Hawaii.												++A	**	+D	+D	+D
nobody	A.	46	05	44	-08	45	-39	41	-44	32	-41					
not anybody	B.	14	-13	06	-11	07	-26	04	-27	03	-35					
none of them	C.*	23	39	31	48	48	53	52	54	65	53					
none for you	D.	11	-29	06	-24	0	0	02	04	0	0					
	Omit	06	-23	12	-30	0	0	0	0	0	0					

APPENDIX C

Item Analysis for

MTEA - Reading Comprehension - Part III

Form A October 1976

	6th	7th	8th	9th	10th
N Subjects	66[1]	93[2]	107	92	31
Mean	10.71	12.28	14.79	16.39	17.87
S.D.	4.62	5.07	5.85	5.29	4.45
Reliabilities					
Split-Half	.75	.84	.84	.83	.80
SE_{MEAS}	2.32	2.01	2.35	2.17	2.00
KR_{20}	.72	.77	.84	.81	.78
SE_{MEAS}	2.42	2.41	2.35	2.80	2.08

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[1] 6 students with scores on Parts I & II did not attempt Part III.

[2] 8 students with scores on Parts I & II did not attempt Part III.

Legend for Item Analysis

Comment	Suggestion
* = Too easy (.90+)	Replace with item of more appropriate content.
** = Adequate item	
*** = Too difficult (.30-)	Has material been covered? Consider replacing.
+A = Weak distractor (A)	Replace distractor with more attractive alternative.
++A = Ambiguous (Option A)	More than one (seemingly) correct answer.
+++ = Weak discrimination	Adequate item, but as easy for good as poor students. Minor modifications could improve it.

This legend system has been devised to provide as much information about each item by grade as possible.

In revising each item, focus your attention on the grade level(s) for which the test (and eventually norms) is primarily intended.

Any of the questions marked with a "+" symbol are judged to be adequate items if it is possible to revise the weakness specified.

ITEM ANALYSIS FOR MTEA PART III FORM A OCTOBER 1976

Item		6th (66)		7th (92)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
1. When did Tom hear something?												**	**	**	**	**
after	A.	42	-34	24	-28	09	-38	14	-34	03	-16					
while	B.*	41	54	59	56	68	65	76	53	90	38					
as soon as	C.	09	-25	04	-18	08	-30	05	-28	03	-36					
young boy	D.	08	-09	12	-32	13	-27	04	-22	03	-12					
	Omit	0	0	01	-19	01	-18	0	0	0	0					
2. What was the voice like?												**	**	**	**	*
night	A.	11	-23	06	-30	09	-32	04	-29	0	0					
rain	B.	15	-36	02	-10	03	-25	01	-03	0	0					
place	C.	11	-28	06	-22	05	-20	03	-29	03	-36					
boy	D.*	64	59	85	40	82	51	91	40	97	36					
	Omit	0	0	0	0	01	-18	0	0	0	0					
3. How did Tom see outside?												**	**	**	**	+D
opened	A.	24	-30	25	-27	15	-42	15	-38	10	-46					
went	B.	21	-16	19	-24	11	-30	10	-23	06	-17					
looked	C.*	44	48	41	59	64	60	66	54	84	48					
put head	D.	09	-12	14	-21	08	-10	08	-16	0	0					
	Omit	02	-07	01	-07	02	-11	01	-05	0	0					
4. Did Tom talk to anybody?												**	**	**	+A	*
somebody	A.	05	-21	08	-25	06	-24	0	0	0	0					
himself	B.*	68	34	62	50	70	49	89	34	97	16					
voice	C.	15	-17	20	-20	21	-38	07	-19	03	-16					
stranger	D.	11	-32	08	-27	03	0	04	-29	0	0					
	Omit	02	33	01	-19	01	-18	0	0	0	0					

Item		6th (66)		7th (92)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
5. Why could Tom see well in the dark?												**	**	**	**	*
house light	A.	18	-26	05	-01	07	-25	05	-19	0	0					
moon and	B.	32	-31	24	-21	16	-20	07	-14	10	06					
light moving	C.	11	-12	10	-18	07	-17	13	-47	03	-12					
moon only	D.*	39	57	60	33	68	44	75	55	87	01					
	Omit	0	0	01	-19	02	-18	0	0	0	0					
6. What was Tom's wrong idea?												**	**	**	**	+A
see voice	A.	12	-12	06	-09	07	-34	01	01	0	0					
from boy	B.*	47	38	40	51	49	62	65	38	87	33					
saw cat	C.	36	-26	40	-26	39	-37	24	-22	10	-43					
had something	D.	05	-13	12	-25	05	-14	10	-29	03	09					
	Omit	0	0	01	-19	01	-18	0	0	0	0					
7. Who is telling this story?												+++	**	**	++D	**
one brother	A.*	44	17	40	33	44	45	58	33	48	51	The brother is "someone".				
a friend	B.	15	09	30	-22	23	-15	12	-27	06	-17					
the uncle	C.	14	-18	20	-05	18	-33	11	-38	19	-50					
someone	D.	23	-01	08	-03	14	-05	20	11	23	0					
	Omit	05	-24	02	-21	01	-18	0	0	03	-08					
8. How did the boys get to the cave?												**	**	**	**	+B
bicycles	A.	18	-29	08	-23	05	-23	04	-15	06	-32					
horses	B.	17	-37	06	-16	07	-20	07	-36	0	0					
walked	C.*	50	64	72	38	76	59	88	41	87	31					
pick up	D.	14	-14	11	-16	11	-43	01	-13	03	-20					
	Omit	02	-18	03	-12	01	-18	0	0	03	05					

Item		6th (66)		7th (92)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
9. How long was the trip to the cave?												++A	++A	++A	++A	++A
half hour	A.	56	37	61	17	65	03	65	06	81	39	Ambiguous. A or C could be correct. Revise.				
-30 minutes	B.	18	-38	13	-17	10	-17	05	-11	06	-02					
one hour	C.*	17	12	18	01	14	33	24	-03	06	-26					
day	D.	09	-28	08	-12	09	-21	05	05	06	-35					
	Omit	0	0	0	0	01	-08	0	0	0	0					
10. What did the boys take along with them?												++D	++B	++BD	++B	++B
everything	A.	21	05	09	05	14	04	12	-10	13	-18	Guessing. Revise.				
few things	B.	29	-38	23	19	27	07	41	28	45	16					
none	C.*	14	07	28	-11	18	-14	11	-01	10	08					
all things	D.	33	22	40	-05	40	05	36	-21	32	-09					
	Omit	03	14	01	-19	01	-18	0	0	0	0					
11. What was the first argument about?												**	**	**	**	**
mix concrete	A.	23	-26	27	-21	19	-20	09	-16	03	-36					
no food	B.*	39	51	39	37	49	72	65	49	81	50					
muddy path	C.	18	-27	08	-18	10	-34	07	-10	10	-21					
friends	D.	20	-10	25	-05	20	-38	18	-38	06	-29					
	Omit	0	0	02	-14	02	-20	01	-11	0	0					
12. Why couldn't they mix the concrete?												**	**	**	**	**
dirt	A.	24	-26	18	-10	12	-07	13	-19	10	-38					
cement	B.	24	-16	25	-36	08	-27	11	-40	06	-49					
sand	C.*	38	58	43	53	60	52	68	58	81	66					
water	D.	14	-28	12	-16	18	-33	08	-30	03	-16					
	Omit	0	0	02	-14	02	-20	0	0	0	0					

1

Item			6th		7th		8th		9th		10th		Comments/Suggestions				
			(66)		(92)		(107)		(92)		(31)						
			Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
13. When they were at the cave what did they think was a bad idea?													+++	+++	**	**	**
	go home	A.	30	01	29	-09	28	-14	33	-13	23	-49	Guessing.				
	stay longer	B.*	32	16	30	20	44	43	35	42	61	75					
	leave tools	C.	24	-02	15	15	05	-29	12	-30	03	-32					
	get wet	D.	14	-19	25	-20	21	-16	21	-10	13	-31					
		Omit	0	0	01	-19	02	-20	0	0	0	0					
14. What happened after they left the cave?													++C	++C	++D	++CD	++D
	couldn't find	A.	14	-01	19	-22	08	-22	14	-41	0	0	Revise.				
	little rain	B.*	26	-35	17	-01	20	01	21	-10	10	16					
	muddy places	C.	41	26	39	31	40	-09	42	19	52	-45					
	covered water	D.	20	07	24	-11	29	29	23	21	39	37					
		Omit	0	0	01	-19	03	-19	0	0	0	0					
15. Why were the boys happy at the end of the day?													++A	**	**	**	+++
	adventure	A.	30	16	24	01	30	10	30	-12	32	0	Guessing. Ambiguous at 6th, 7th, 8th and 10th.				
	rain stopped	B.	27	-32	13	-28	11	-25	09	-21	03	-08					
	friends	C.*	27	23	41	44	43	33	48	51	45	16					
	project done	D.	15	-09	22	-26	15	-32	13	-42	19	17					
		Omit	0	0	01	-19	01	-18	0	0	0	0					
16. What do you think the boys project was?													++C	**	**	**	**
	wall	A.*	36	26	40	45	54	40	64	54	74	41					
	see cave	B.	15	-15	12	-25	11	-07	11	-32	10	-11					
	visit farm	C.	27	07	28	-10	17	-21	12	-24	06	-26					
	eat meal	D.	20	-21	19	-19	17	-24	13	-25	10	-28					
		Omit	02	0	01	-19	0	0	0	0	0	0					

Item		6th (66)		7th (92)		8th (107)		9th (92)		10th (31)		**Comments/Suggestions**				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
17. What kind of fisherman was Jack?												***	***	**	**	**
bad one	A.	18	-19	14	-44	07	-17	05	-13	06	-02	Very difficult even at 8th, 9th and 10th.				
not careful	B.*	20	32	27	30	40	47	40	36	32	28					
careful	C.	48	-10	30	06	26	-05	28	-14	42	-25					
worst	D.	12	05	29	-01	27	-37	26	-19	19	0					
	Omit	02	-18	0	0	0	0	0	0	0	0					
18. How did the boys dive by the coral?												**	**	**	**	**
together	A.	29	-32	22	-12	19	-29	18	-30	06	-41					
one by one	B.*	42	44	48	34	56	58	62	65	77	59					
pairs	C.	14	-15	08	-19	11	-33	05	-29	03	-32					
threes	D.	11	-11	22	-12	13	-19	14	-38	13	-27					
	Omit	05	05	01	-19	01	-06	0	0	0	0					
19. How good were the boys at shooting?												**	**	**	**	**
sometimes	A.	15	04	14	-32	16	-26	13	-23	03	-12					
only Jack	B.	32	-40	27	-18	17	-35	20	-38	06	-17					
never missed	C.*	41	42	45	60	62	46	59	63	81	50					
two boys	D.	09	-19	13	-31	06	01	09	-30	10	-46					
	Omit	03	11	01	-05	0	0	0	0	0	0					
20. When did a shark come?												++D	++BD	++D	++CD	++CD
after 45 min.	A.*	14	07	10	-20	12	-14	10	-20	06	-49	Revise.				
right away	B.	32	-27	31	18	21	-14	13	-33	16	-16					
after 30 min.	C.	18	0	40	-18	18	08	24	13	19	14					
after 15 min.	D.	32	-32	18	21	49	17	53	23	58	25					
	Omit	05	-22	01	-19	01	-15	0	0	0	0					

Item		6th (66)		7th (92)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
21. What was like a game for the boys?												**	**	**	**	+++
playing coral	A.	21	-20	23	-24	11	-07	12	-22	10	-14					
playing spear	B.	20	-23	16	-15	16	-27	12	-20	06	-05					
swim shark	C.	23	-18	12	-13	14	-32	15	-21	19	-02					
shark left	D.*	30	63	48	43	58	49	61	43	65	13					
	Omit	06	-18	01	-19	01	-13	0	0	0	0					
22. Why couldn't Jack get his fish?												**	**	**	**	**
fish stuck	A.*	45	52	53	58	66	50	71	54	84	38					
spear fell	B.	20	-35	14	-24	09	-26	07	-18	06	-26					
shark coming	C.	23	-11	24	-26	17	-24	15	-40	06	-20					
couldn't see	D.	06	-18	09	-28	07	-27	08	-23	03	-16					
	Omit	06	-14	01	-19	0	0	0	0	0	0					
23. Why did Jack dive back down again?												**	**	**	**	**
show off	A.	14	-13	13	-14	11	-09	11	01	06	-32					
find spear	B.	26	-23	33	-05	23	-03	26	-32	26	-17					
shark away	C.*	38	41	40	35	50	26	55	39	58	34					
get away	D.	18	-01	13	-25	16	-24	08	-22	10	-06					
	Omit	05	-22	01	-19	0	0	0	0	0	0					
24. What did the other boys know was useless?												***	**	**	**	**
Jack afraid	A.*	27	28	41	33	56	52	53	57	52	73					
Jack was	B.	33	-19	24	-01	19	-30	16	-14	19	-35					
Jack scared	C.	24	-06	17	-16	10	-13	17	-35	13	-14					
use spear	D.	09	-03	16	-22	15	-28	13	-29	16	-48					
	Omit	06	-03	02	-15	0	0	0	0	0	0					

Item		6th (66) Dif	 Pbs	7th (92) Dif	 Pbs	8th (107) Dif	 Pbs	9th (92) Dif	 Pbs	10th (31) Dif	 Pbs	Comments/Suggestions 6	 7	 8	 9	 10
25. Why did the shark go away?												++D	***	**	**	**
got fish	A.	35	-09	28	-18	27	-26	26	-33	26	-07					
Jack came up	B.	23	-26	22	-25	21	-23	11	-24	16	-36					
wasn't hungry	C.*	26	28	28	46	36	48	52	52	45	58					
killed	D.	12	24	20	-04	16	-06	11	-12	13	-38					
	Omit	05	-22	02	-04	0	0	0	0	0	0					
26. What did the boys learn from Jack?												+++	++A	+++	++D	***
wasn't brave	A.	32	02	29	10	39	-06	34	-10	29	-11	Guessing. Revise.				
everyone	B.	29	0	16	-17	10	-19	12	-24	13	-33					
careless	C.*	30	09	25	28	25	19	18	19	23	38					
get want	D.	03	03	27	-18	25	02	36	10	35	01					
	Omit	06	-23	03	-14	0	0	0	0	0	0					
27. What can this group of students do now?												++A	***	**	**	**
play	A.	30	13	38	-21	31	-15	27	-01	06	-29	Difficult.				
make	B.	12	-07	16	-16	09	-11	15	-23	06	-02					
have	C.	30	-14	20	04	22	-30	23	-21	29	-62					
sing	D.*	18	16	20	41	36	44	35	37	58	72					
	Omit	09	-11	05	-07	01	14	0	0	0	0					
28. When were they almost ready to start their band?												**	**	**	**	++A
all instrum.	A.	27	07	23	08	36	-21	38	-13	42	25	Guessing and difficult. A is somewhat ambiguous.				
use radio	B.	20	-11	23	-15	21	01	16	-09	19	-04					
guitar/drum	C.*	33	28	35	28	36	28	40	31	29	07					
played	D.	11	-16	13	-20	07	-14	05	-24	10	-46					
	Omit	09	-25	06	-16	0	0	0	0	0	0					

Item		6th (66)		7th (92)		8th (107)		9th (92)		10th (31)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
29. Why did these students want to stop their idea about a band?												**	**	**	**	+A
girl talked	A.	18	-17	15	-33	13	-16	05	-13	0	0					
didn't help	B.	14	-15	11	-06	06	-12	07	-15	10	-31					
not sing	C.	15	-09	16	-28	09	-32	08	-22	06	-20					
disappointed	D.*	42	48	51	58	71	42	80	31	84	38					
	Omit	11	-29	08	-18	01	-15	0	0	0	0					
30. What happened at the end of the story?												+++	**	**	**	**
radio	A.	23	-15	15	-19	21	-43	14	-39	13	-42	6th Guessing.				
sing with	B.*	38	01	42	30	53	37	58	53	48	67					
play records	C.	17	17	17	03	12	05	16	-10	29	-25					
gave record	D.	11	13	17	-10	13	-07	12	-27	10	-26					
	Omit	12	-15	09	-20	0	0	0	0	0	0					

APPENDIX D

SUMMARY STATISTICS
MTEA PART I - LISTENING COMPREHENSION
FORM B - MARCH - MAY, 1976
50 ITEMS

	GRADES				
	6th	7th	8th	9th	10th
N. Subjects	28	56	68	112	23
Mean	29.93	34.88	41.40	41.04	44.65
S.D.	6.71	7.5	4.24	4.76	2.22
Reliabilities					
Split Half	.69	.87	.70	.70	.60
SE_{MEAS}	3.71	2.73	2.33	2.63	1.41
KR_{20}	.82	.87	.73	.78	.48
SE_{MEAS}	2.81	2.68	2.19	2.26	1.60

Legend for Item Analysis

Comment	Suggestion
* = Too easy (.90+)	Replace with item of more appropriate content.
** = Adequate item	
*** = Too difficult (.30-)	Has material been covered? Consider replacing.
+A = Weak distractor (A)	Replace distractor with more attractive alternative.
++A = Ambiguous (Option A)	More than one (seemingly) correct answer.
+++ = Weak discrimination	Adequate item, but as easy for good as poor students. Minor modifications could improve it.

This legend system has been devised to provide as much information about each item by grade as possible.

In revising each item, focus your attention on the grade level(s) for which the test (and eventually norms) is primarily intended.

Any of the questions marked with a "+" symbol are judged to be adequate items if it is possible to revise the weakness specified.

ITEM ANALYSIS FOR MTEA PART I - FORM B MARCH-MAY 1976

Item	6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
1. She's sharing some paper between them.											**	+++	*	*	*
A	07	-27	04	13	0	0	01	02	0	0	7th - Review distractor A				
B	04	14	11	-20	01	-24	04	-26	0	0					
C*	89	31	86	11	99	24	95	23	100	0					
2. She's laughing at the boy.											*	*	*	*	*
A*	100	0	98	07	100	0	98	04	100	0	Good starter item. Too easy. The boy might be laughing at the girl in B. Omit/Revise.				
B	0	0	0	0	0	0	0	0	0	0					
C	0	0	02	-07	0	0	02	-04	0	0					
3. That's a whole banana.											**	**	*	*	*
A	07	0	02	-09	0	0	0	0	0	0					
B*	50	24	82	44	91	22	98	26	100	0					
C	43	-25	16	-43	09	-22	02	-26	0	0					
4. It's too big to fit inside there.											+++	**	*	**	*
A	07	13	09	-35	01	02	21	-31	0	0					
B	04	-31	04	-41	01	-01	03	-01	0	0					
C*	89	08	88	53	97	0	76	31	100	0					
5. Here's a pair of trees, growing together.											+A	+A	+A	+A	+A
A	0	0	0	0	0	0	05	-41	0	0	Option A - replace with two trees far apart.				
B*	68	17	75	46	78	22	68	44	91	09					
C	32	-17	25	-46	20	-22	27	-25	09	-09					
6. That book's bigger than that ball.											**	**	*	*	*
A	11	-46	21	-25	01	08	04	-30	0	0					
B	11	-12	13	-22	01	22	0	0	0	0					
C*	79	44	66	38	96	-15	96	30	100	0					
Omit	0	0	0	0	01	-04	0	0	0	0					
7. It's hers.											**	**	*	*	*
A	14	-03	4	-16	0	0	4	08	0	0					
B	07	-49	11	-50	0	0	1	-26	0	0					
C*	79	33	84	56	100	0	95	04	100	0					
Omit	0	0	2	-16	0	0	0	0	0	0					

Item	6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
8. It's two inches long.											**	*	*	*	*
A	14	-39	02	-16	03	-16	01	-02	0	0					
B*	75	40	96	28	97	16	99	02	100	0					
C	11	-12	02	-23	0	0	0	0	0	0					
9. He won't look for his book now.											**	**	*	*	*
A	0	0	05	-32	04	-10	06	01	0	0					
B	25	-58	21	-51	01	08	04	-09	0	0					
C*	71	56	73	64	94	05	90	05	100	0					
Omit	04	0	0	0	0	0	0	0	0	0					
10. There isn't anybody at the door.											**	*	*	*	*
A*	89	32	93	47	100	0	98	18	100	0	7th - Good starter item.				
B	07	-12	05	-48	0	0	01	-26	0	0					
C	04	-37	02	-09	0	0	01	0	0	0					
11. There's a little milk on the table.											**	**	+B	**	*
A	29	-44	34	-41	15	-46	23	-44	0	0					
B	18	-29	9	-25	0	0	04	-21	0	0					
C*	50	55	57	53	85	46	72	51	100	0					
Omit	4	17	0	0	0	0	0	0	0	0					
12. When the ball hit the bottle, it fell.											++C	+++	+++	+++	*
A*	61	-12	45	22	72	29	65	28	96	06					
B	0	0	11	-26	06	-33	06	-13	04	-06					
C	39	12	45	-06	22	-13	29	-23	0	0					
13. It makes the most noise.											++	++	++	++	++
A*	7	-18	11	09	10	21	18	05	0	0	Miskeyed? With B as the correct answer its better, but still ambiguous. Rewrite.				
B	54	25	36	23	66	-12	54	08	83	03					
C	36	-15	54	-28	24	-01	29	-13	17	-03					
Omit	4	-03	0	0	0	0	0	0	0	0					
14. That thing is getting bigger.											**	**	*	*	*
A	7	-20	5	-48	0	0	0	0	0	0					
B	4	-37	4	-05	01	-44	2	-17	09	-09					
C*	89	39	91	41	99	44	98	17	91	09					
15. He's not here now, but someone was walking here on the beach.											**	**	**	**	*
A	14	-31	9	-42	07	-31	10	-36	4	-06					
B	4	-14	2	-14	01	-16	01	-18	0	0					
C*	82	36	89	45	91	35	88	41	96	06					

Item	6th		7th		8th		9th		10th		Comments/Suggestions				
	(28)		(56)		(68)		(112)		(23)						
	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
16. She's putting some pieces of glass on the table.											**	++	**	**	*
A	29	-31	23	05	18	-27	28	-42	04	-06					
B	7	-24	0	0	03	-14	02	-02	0	0					
C*	64	43	77	-05	79	31	71	42	96	06					
17. The cans are 10¢ each.											+A	**	*	*	*
A	0	0	2	-05	01	-10	01	-02	0	0					
B	25	-30	9	-40	04	-09	04	-30	0	0					
C*	75	30	89	39	94	13	96	28	100	0					
18. As soon as he sat down, she went away.											+B	+++	+B	+++	+B
A	39	-26	29	-09	25	-17	22	-05	13	-35					
B	0	0	4	02	0	0	05	-21	0	0					
C*	61	26	68	09	75	17	72	15	87	35					
19. They're running, aren't they?											*	*	*	*	*
A	0	0	4	-09	0	0	0	0	0	0	Use a person running away as an option.				
B*	96	11	96	09	99	01	100	0	100	0					
C	4	-11	0	0	01	-01	0	0	0	0					
20. Here's some paper without lines.											**	**	*	*	*
A*	79	68	88	44	99	44	98	20	100	0					
B	4	-37	2	-25	01	-44	01	-30	0	0					
C	18	-55	11	-36	0	0	01	02	0	0					
21. Here are a few pigs.											++	**	**	*	*
A*	36	51	61	62	88	45	93	26	91	-12	Use a Picture B taken at some distance.				
B	0	0	01	-18	01	-44	0	0	0	0					
C	57	-31	38	-57	10	-31	7	-26	09	12					
Omit	7	-35	0	0	0	0	0	0	0	0					
22. Those boxes are both empty.											**	**	**	**	*
A	57	-21	50	-58	29	-41	19	-55	0	0					
B*	36	37	48	54	68	49	79	57	100	0					
C	7	-29	02	15	03	-26	03	-12	0	0					
23. Tom has as many cans as Mary.											***	***	***	***	***
A	46	-38	57	-27	40	-20	35	-33	30	21	Perhaps it is unclear in C that Mary has only one can. Confuses number and size.				
B*	4	26	11	23	9	26	20	29	0	0					
C	46	33	32	14	51	04	46	08	61	-21					
Omit	4	-11	0	0	0	0	0	0	0	0					

Item	6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
24. He has a hat, hasn't he?											*	*	*	*	*
A	0	0	05	-08	0	0	0	0	0	0					
B	4	-37	04	-29	04	-37	0	0	04	-16					
C*	96	37	91	25	96	37	100	0	96	16					
25. He had some rice this morning and ate it all.											+A	*	**	**	*
A*	89	48	91	16	81	35	88	44	96	25					
B	7	-49	9	-16	13	-44	07	-22	04	-25					
C	0	0	0	0	06	05	05	-39	0	0					
Omit	4	-11	0	0	0	0	0	0	0	0					
26. She has enough books for the children.											**	**	**	**	*
A*	43	74	66	49	81	35	85	27	96	25					
B	36	-33	25	-41	13	-44	10	-32	04	-25					
C	18	-50	9	-18	06	05	04	03	0	0					
Omit	04	-11	0	0	0	0	01	-08	0	0					
27. She's going by bike.											+++	**	**	**	+C
A	29	15	14	-24	15	-18	13	-12	17	-34	Look at option C.				
B*	64	04	82	27	84	20	85	26	83	34					
C	7	-33	4	-11	01	-10	02	-40	0	0					
28. That can's covered with pictures of flowers.											**	**	**	**	**
A	46	-30	14	-45	06	-07	25	-32	04	-25					
B*	39	39	73	43	90	31	70	33	87	58					
C	14	-12	13	-10	04	-37	05	-07	09	-51					
Omit	0	0	0	0	0	0	0	0	0	0					
29. She has less milk than John.											**	**	**	**	*
A*	61	34	66	38	91	48	88	41	96	54					
B	11	-22	14	-36	04	-14	06	-30	04	-54					
C	29	-22	18	-17	04	-53	05	-26	0	0					
Omit	0	0	2	09	0	0	0	0	0	0					
30. She has twice as many pencils.											***	**	**	**	**
A	14	02	13	-14	4	-09	03	-31	13	-17					
B	50	-27	32	-41	15	-47	12	-30	04	-16					
C*	36	26	55	48	81	47	85	41	83	24					
Omit	0	0	0	0	0	0	01	-02	0	0					
31. It's nearly 3 o'clock.											+++	**	**	*	*
A	14	-27	18	-31	04	-44	04	-25	0	0	9th Good but easy.				
B	18	05	7	-29	04	-12	02	-24	0	0					
C*	68	16	75	45	91	41	94	34	100	0					

Item	6th		7th		8th		9th		10th		Comments/Suggestions				
	(28)		(56)		(68)		(112)		(23)						
	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
32. He has just pushed the pile of cans.											**	**	*	*	*
A	21	-44	4	-16	01	08	01	0	0	0					
B	7	-12	5	-23	07	-07	02	01	0	0					
C*	71	46	91	29	91	03	97	-01	100	0					
33. They're putting the boxes on the table two at a time.											**	**	*	*	*
A*	79	41	80	20	94	26	99	30	96	16	8th good but easy.				
B	7	-14	7	-19	03	-10	0	0	0	0					
C	14	-38	13	-09	03	-26	01	-30	04	-16					
34. There are several pairs of zories on the ground.											**	**	**	**	*
A	36	-34	29	-20	13	-04	16	-21	04	-25					
B*	57	40	52	37	75	33	76	36	96	25					
C	07	-14	20	-24	12	-41	08	-28	0	0					
35. Bill gave her all the books except one.											**	**	*	**	*
A*	89	56	86	45	93	32	89	41	96	54	8th good but easy.				
B	4	-20	9	-29	06	-29	07	-25	04	-54					
C	7	-53	4	-29	01	-13	04	-34	0	0					
Omit	0	0	2	-16	0	0	0	0	0	0					
36. This man used to work on a ship, but he's not there now.											+++	+++	**	**	**
A	11	-05	20	-15	25	-34	24	-11	22	-20	Difficult item for 6th-7th.				
B	36	-14	36	-04	21	-11	28	-34	09	-44					
C*	54	16	45	16	54	39	48	40	70	45					
Omit	0	0	0	0	0	0	0	0	0	0					
37. He's among them.											++A	++A	*	**	++A
A	11	21	11	19	03	-04	11	-06	09	19	A & B ambiguous.				
B*	75	-01	79	04	94	10	85	23	91	-19					
C	14	-18	11	-25	03	-10	04	-31	0	0					
Omit	0	0	0	0	0	0	0	0	0	0					
38. I'm sure there isn't anybody in there.											*	*	*	*	*
A	7	-18	04	-24	0	0	02	-21	0	0					
B	4	32	02	-18	0	0	02	-17	0	0					
C*	89	-04	95	30	100	0	96	27	100	0					
Omit	0	0	0	0	0	0	0	0	0	0					
39. Ruth will sit here until he goes away.											++A	***	+++	**	**
A	68	27	50	-10	24	-08	25	-37	30	-49					
B*	0	0	21	42	51	18	56	28	57	61					
C	32	-27	29	-27	25	-13	19	05	13	-23					
Omit	0	0	0	0	0	0	0	0	0	0					

Item	**6th** (28)		**7th** (56)		**8th** (68)		**9th** (112)		**10th** (23)		**Comments/Suggestions**				
	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
40. He carried the books without dropping them.											**	**	*	*	*
A*	50	74	77	47	93	-06	97	35	100	0	Seems ambiguous, "carried", but in correct answer "is carrying".				
B	36	-38	13	-27	03	0	03	-35	0	0					
C	14	-54	11	-35	01	10	0	0	0	0					
Omit	0	0	0	0	0	0	0	0	0	0					
41. This person can't drive, can he?											**	**	+++	**	**
A	21	-25	21	-51	12	-08	06	-12	0	0					
B	25	-04	14	-22	01	-27	06	-18	13	-29					
C*	54	25	64	60	87	17	88	22	87	29					
Omit	0	0	0	0	0	0	0	0	0	0					
42. That book begins with a picture.											**	**	**	**	*
A	7	25	04	-29	03	-41	02	01	0	0					
B*	46	20	75	40	85	57	90	23	100	0					
C	46	-33	21	-29	12	-41	08	-26	0	0					
Omit	0	0	0	0	0	0	0	0	0	0					
43. Those coconuts are above her.											**	**	**	**	**
A	57	-51	23	-51	24	-45	12	-33	04	-16					
B	7	-27	13	03	04	-09	05	-14	04	-54					
C*	36	67	64	43	72	47	83	28	91	51					
Omit	0	0	0	0	0	0	0	0	0	0					
44. When this boy has finished writing his letter, he'll take it to the Post Office.											***	***	**	**	+A
A	54	-14	45	-42	25	-32	16	[illegible]	0	0					
B*	11	49	27	40	57	49	68	[illegible]	78	44					
C	36	-17	29	07	18	-28	16	-30	22	-44					
Omit	0	0	0	0	0	0	0	0	0	0					
45. I wish I could run.											***	**	**	**	**
A*	25	18	45	54	84	59	86	51	91	37					
B	57	-22	27	-43	07	-37	12	-41	04	-54					
C	18	09	29	-18	09	-42	03	-28	04	03					
Omit	0	0	0	0	0	0	0	0	0	0					
46. My writing is getting worse and worse at the end of this paper.											*	**	++A	++A	++A
A	57	02	41	05	59	-01	69	03	48	03	Make the distinctions in the pictures clearer.				
B	21	-11	21	-50	07	-01	04	-19	0	0					
C*	21	08	38	37	34	02	27	05	52	-03					
Omit	0	0	0	0	0	0	0	0	0	0					

Item	6th		7th		8th		9th		10th		Comments/Suggestions				
	(28)		(56)		(68)		(112)		(23)						
	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
47. It took four nails to fix the door.											**	**	**	**	**
A	18	-31	14	-14	16	-34	20	-39	09	-30					
B	7	-27	14	-27	03	-04	04	-12	04	03					
C*	75	44	71	32	81	34	76	42	87	23					
Omit	0	0	0	0	0	0	0	0	0	0					
48. If this boy had a hammer, he'd open the box.											**	**	*	*	*
A	36	-30	18	-25	03	-04	02	-10	0	0	8th-9th good but easy.				
B*	43	55	63	59	93	25	91	40	96	54					
C	21	-31	20	-47	04	-29	07	-39	04	-54					
Omit	0	0	0	0	0	0	0	0	0	0					
49. She took the shovel instead of taking the shovel and and the broom.											*	**	**	**	*
A	71	-32	38	-65	21	-29	20	-51	0	0					
B*	25	34	61	66	76	31	79	53	96	16					
C	4	0	02	-07	03	-10	01	-14	04	-16					
Omit	0	0	0	0	0	0	0	0	0	0					
50. This person here is tall; he's also fat.											**	**	*	*	*
A	29	-15	13	-27	01	-10	03	0	0	0					
B	4	-31	04	-23	03	-08	02	-09	0	0					
C*	68	27	84	36	96	12	96	06	100	0					
Omit	0	0	0	0	0	0	0	0	0	0					

SUMMARY STATISTICS

MTEA PART II - STRUCTURE AND VOCABULARY

FORM B - MARCH-MAY 1976

60 ITEMS

	6th	7th	8th	9th	10th
N Subjects	28	56	68	112	23
Mean	24.25	30.20	40.69	41.73	44.48
S.D.	9.02	11.40	9.42	9.16	9.76
Reliabilities					
Split Half	.87	.93	90	91	94
SE_{MEAS}	3.26	2.95	3.04	2.76	2.47
KR_{20}	.87	.92	90	89	92
SE_{MEAS}	3.27	3.29	3.04	3.04	2.85

Average Difficulty by Subsection	Average Difficulty for Items by Subsectio				
TATE OE 8 (N=9)	.62	.71	.84	.84	.93
TATE OE 9 (N=12)	.41	.48	.66	.69	.76
TATE OE 10 (N=12)	.36	.45	.64	.64	.66
TATE OE 11 (N=12)	.42	.54	.70	.74	.74
TATE OE 12 (N=12)	.32	.44	.65	.65	.69
TATE OE 13 (N=3)	.22	.35	.43	.54	.62

Legend for Item Analysis

Comment	Suggestion
* = Too easy (.90+)	Replace with item of more appropriate content.
** = Adequate item	
*** = Too difficult (.30-)	Has material been covered? Consider replacing.
+A = Weak distractor (A)	Replace distractor with more attractive alternative.
++A = Ambiguous (Option A)	More than one (seemingly) correct answer.
+++ = Weak discrimination	Adequate item, but as easy for good as poor students. Minor modifications could improve it.

This legend system has been devised to provide as much information about each item by grade as possible.

In revising each item, focus your attention on the grade level(s) for which the test (and eventually norms) is primarily intended.

Any of the questions marked with a "+" symbol are judged to be adequate items if it is possible to revise the weakness specified.

Item			6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
			Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
1.	That's a very nice boat you have there. How _____ is it?												++D	+++	+++	**	+C
	long	A.*	75	-10	68	19	74	21	.83	22	.83	37					
	width	B.	04	-13	05	-31	12	-33	.05	-25	09	-57					
	length	C.	04	-18	02	02	0	0	.02	-03	0	0					
	speed	D.	18	27	25	-05	15	04	.10	-08	09	06					
2.	I can see black clouds in the sky. _____ it will rain.												**	**	*	*	*
	some	A.	07	-27	07	-21	03	-25	03	41	04	25	Capitalize all options.				
	soon	B.*	75	39	80	53	96	37	96	33	91	25					
	yet	C.	11	-09	05	-24	00	0	01	-10	0	0					
	out	D.	07	-28	07	-39	01	-27	0	0	04	-60					
		Omit	0	0	0	0	0	0	01	-06	0	0					
3.	This sharp knife is very dangerous. _____ should touch it.												**	**	*	*	*
	Anybody	A.	04	-15	02	-13	01	-05	02	-08	0	0	8th - Good but easy.				
	Anything	B.	14	-43	09	-40	01	-29	03	-31	0	0					
	Anybody	C.	07	-25	04	-22	03	-13	0	0	04	-60	Options A & C the same!				
	Nobody	D.*	75	56	84	49	94	27	96	30	96	60					
		Omit	0	0	02	-04	0	0	0	0	0	0					
4.	I saw a girl last night. _____ was very beautiful.												+A	+D	*	*	*
	it	A.	0	0	04	04	01	-27	01	-17	0	0					
	she	B.*	89	41	88	28	97	18	97	27	96	10					
	there	C.	04	-18	09	-35	01	02	0	0	04	-10					
	her	D.	07	-36	0	0	0	0	02	-21	0	0					

Item		6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
5. Help! Help! My house is _____ fire!												**	**	**	+A	*
for	A.	04	-05	02	-04	01	-29	0	0	0	0	Replace "for" with "to" or ...				
with	B.	32	-27	14	-43	03	-08	06	-39	0	0					
on	C.	29	-08	21	-15	21	-22	16	-34	04	-60					
in	D.*	36	36	63	45	75	32	78	53	96	60					
6. Next week he _____ to Guam.												**	**	**	**	*
went	A.	11	-07	14	-32	12	-27	06	-03	0	0					
will going	B.	18	-48	13	-25	04	-27	07	-45	0	0					
go	C.	07	-08	05	-06	03	-47	03	-10	0	0					
will go	D.*	64	48	68	45	81	56	84	38	100	0					
7. I can't hear the music. Can _____ the radio a little louder.												+D	**	**	+D	*
try	A.	29	-11	20	-35	07	-22	12	-31	04	-60					
make	B.*	57	39	71	55	87	45	85	46	96	60					
do	C.	14	-41	02	-16	04	-31	04	-35	0	0					
making	D.	0	0	07	-35	01	-27	0	0	0	0					
8. _____ here last night, were they?												***	**	**	**	*
They weren't	A.*	18	35	45	20	63	31	54	43	87	40					
There weren't	B.	14	-29	04	-27	07	01	07	-05	0	0					
There weren't any	C.	07	-15	09	-20	04	-26	04	-16	0	0					
They aren't	D.	61	01	43	01	25	-22	35	-36	13	-40					

Item		6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
9. I'm not afraid. That spear is only made _____ wood.												+BC	**	+BC	+C	+C
for	A.	32	-25	16	-25	10	-47	11	-35	04	-60					
at	B.	0	0	07	-16	0	0	03	-31	04	-49					
to	C.	0	0	05	-25	01	04	0	0	0	0					
of	D.*	68	25	71	42	88	43	87	46	91	79					
-*8*-																
10. Those books are _____ .												**	**	**	**	*
they	A.	11	-18	14	-40	04	-42	04	-36	0	0					
theirs	B.*	39	37	43	36	75	51	83	50	96	49					
their	C.	29	-05	27	11	13	-18	06	-21	04	-49					
themselves	D.	21	-26	16	-24	07	-28	06	-26	0	0					
11. They like to swim so they _____ go to the beach.												**	**	+D	+D	+D
many times	A.	29	-30	14	-33	04	-27	13	-42	04	-08					
much	B.	07	-10	18	-20	07	-33	08	-19	09	-79					
often	C.*	57	46	64	43	88	43	79	47	87	71					
a lot	D.	07	-25	04	09	0	0	01	-03	0	0					
12. _____ you like to play night?												**	**	*	*	*
Are	A.	39	-22	05	-30	04	-33	02	-31	0	0					
Do	B.*	46	51	88	44	96	33	91	32	100	0					
Were	C.	11	-41	02	-16	0	0	05	-14	0	0					
Can	D.	04	-11	05	-25	0	0	02	-15	0	0					

Item			6th (28) Dif	 Pbs	7th (56) Dif	 Pbs	8th (68) Dif	 Pbs	9th (112) Dif	 Pbs	10th (23) Dif	 Pbs	Comments/Suggestions 6	 7	 8	 9	 10
13.	They _____ crab for dinner last night.												***	***	**	**	+D
	are eating	A.	57	06	50	-42	24	-39	23	-39	17	-37					
	will eat	B.	11	-32	18	-02	15	-25	14	-08	04	-10					
	had	C.*	11	55	27	41	57	64	57	50	78	39					
	like	D.	21	-25	05	16	04	-30	05	-25	0	0					
14.	2 and 2. John has _____ cans as Mary.												+++	***	***	**	**
	as much	A.	18	02	21	04	25	-05	28	-19	30	-10	Commonly used? Much-many distinction not clear.				
	more	B.	43	07	29	-19	26	-20	17	-12	17	02					
	many	C.	21	-21	39	-09	16	-05	18	-13	09	-43					
	as many	D.*	18	11	11	36	32	27	36	35	43	33					
		Omit	0	0	0	0	0	0	02	08	0	0					
15.	We can read well, _____ we?												++B	++C	+++	+++	+++
	can't	A.*	36	-11	38	0	51	10	62	17	74	-04	Option D "don't" is selected by better students.				
	will	B.	11	34	05	-26	01	-10	01	-17	0	0					
	can	C.	43	-11	45	15	41	-19	31	-09	22	-07					
	don't	D.	11	02	13	04	06	23	06	-09	04	23					
16.	_____ I was careless I lost my money.												++D	++D	+++	**	+B
	If	A.	36	-06	36	-21	29	-18	35	-31	26	-09					
	And	B.	14	-25	0	0	04	-26	01	-07	0	0					
	Because	C.*	29	-09	27	-13	35	21	38	32	65	18					
	Once	D.	21	38	38	33	31	08	27	0	09	-16					

Item			6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
			Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
17.	The teacher told Tom to _____ his books on the table.												**	**	**	**	**
	take	A.	14	-27	13	-17	12	-35	13	-15	09	-39					
	put	B.*	54	30	48	41	66	38	68	22	70	42					
	bring	C.	11	-28	18	-01	12	05	06	-25	13	-44					
	take off	D.	21	08	20	-29	10	-27	13	03	09	24					
		Omit	0	0	02	-24	0	0	0	0	0	0					
18.	John is standing _____ the middle of the room.												**	**	**	**	+B
	at	A.	39	-17	38	-24	37	-06	34	-25	39	-15	Couldn't A also be correct? Replace with "by".				
	to	B.	04	-20	05	-26	04	-12	01	-17	0	0					
	on	C.	25	-09	14	-23	07	-39	05	-11	04	-49					
	in	D.*	29	37	43	52	51	31	60	33	57	35					
19.	My uncle likes to fish. He is a good _____ .												**	**	**	*	+AC
	fishing	A.	21	-27	09	-40	04	-33	02	-19	0	0	Perhaps use a less common word than fisherman.				
	fisher	B.	11	-29	07	0	07	-25	04	0	17	-10					
	fisherman	C.*	61	51	75	25	85	53	91	05	83	10					
	at fishing	D.	07	-18	09	03	03	-31	03	06	0	0					
20.	The car was very big and heavy. We could _____ push it.												**	**	**	**	+D
	nearly	A.	07	-27	14	-50	07	-04	04	-24	13	-31					
	hardly	B.*	61	48	61	64	82	41	87	47	83	54					
	easily	C.	25	-24	20	-27	06	-16	09	-37	04	-49					
	clearly	D.	07	-22	05	-13	04	-52	01	-12	0	0					

Item		6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
21. Bill took a bus ride to another town. _____ the way he saw many beautiful sights.												+++	**	**	+A	+A
under	A.	04	-18	05	-29	03	-32	0	0	0	0					
at	B.	21	-10	38	-08	15	-28	20	-40	17	-12					
along	C.*	54	22	48	35	74	61	72	54	78	40					
for	D.	21	09	09	-24	09	-41	08	-30	04	-60					
-*9*-																
22. The next town was _____ far to walk.												++A	***	**	**	**
so	A.	39	20	52	-44	28	-11	22	-30	26	-28	Could A also be correct?				
much	B.	25	-17	05	12	07	-30	04	-06	13	-18					
too	C.*	25	17	29	48	43	27	56	40	48	47					
to	D.	11	-32	11	09	22	-02	18	-17	13	-15					
	Omit	0	0	04	-27	0	0	0	0	0	0					
23. _____ are six boys and six girls coming to my birthday party.												++A	**	+D	+D	+D
their	A.	29	24	20	03	13	-07	14	-23	13	-01	Replace option "D" with "those".				
there	B.*	36	17	48	47	63	36	54	43	48	35					
they	C.	36	-39	30	-48	24	-35	32	-28	39	-36					
them	D.	0	0	02	-20	0	0	0	0	0	0					
24. When Tom got home from school, he _____ his mother for something to eat.												++B	**	**	**	+D
ask	A.	43	-18	36	-24	24	-28	22	-24	17	-49					
will ask	B.	32	17	16	-09	13	-19	17	-08	30	-26					
asked	C.*	18	08	36	57	60	47	58	34	52	62					
asking	D.	07	-08	13	-38	03	-29	03	-22	0	0					

Item		6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
25. John was laughing _____ a funny picture.												**	**	**	**	+D
for	A.	07	-16	18	-40	04	-29	07	-23	04	-08					
at	B.*	79	28	71	56	88	45	86	34	78	31					
to	C.	07	-05	04	-22	06	-37	05	-17	17	-29					
of	D.	07	-24	07	-22	01	02	02	-17	0	0					
	Omit	0	0	0	0	0	0	0	0	0	0					
26. That's a nice car. Does it _____ to you?												++C	++C	+++	***	++C
own	A.	04	-20	04	-11	03	-11	04	-18	0	0					
belonging	B.	04	-20	05	-30	01	-29	01	-07	04	-49					
belongs	C.	54	06	50	37	62	-07	68	-22	52	06					
belong	D.*	39	09	41	-20	34	19	28	32	43	14					
27. How come we _____ going to the show right now?												**	**	**	**	+D
isn't	A.	25	-14	20	-33	04	-27	05	-25	04	-08					
weren't	B.	21	-19	14	-15	16	-29	15	-03	30	-41					
aren't	C.*	39	40	54	51	74	49	76	28	65	43					
wasn't	D.	14	-16	13	-21	06	-23	04	-29	0	0					
28. 5 feet and 5½ feet. John is _____ than Tom.												**	**	**	**	+D
tallest	A.	07	-27	14	-07	03	-12	10	-34	09	-14					
tall	B.	18	-33	09	-38	01	-09	01	03	04	-60					
taller	C.*	46	66	64	54	91	48	88	35	87	48					
biggest	D.	29	-30	13	-37	04	-51	02	-14	0	0					

Item			6th (28) Dif	Pbs	7th (56) Dif	Pbs	8th (68) Dif	Pbs	9th (112) Dif	Pbs	10th (23) Dif	Pbs	Comments/Suggestions 6	7	8	9	10
29.	Mary was hungry so she made _____ a sandwich.												+D	**	**	*	*
	himself	A.	04	-09	11	-24	01	-29	02	03	04	-49	Replace option D with "hers".				
	her	B.	46	-33	16	-23	07	-18	02	0	04	-19					
	herself	C.*	50	36	70	45	88	43	96	-03	91	49					
	him	D.	0	0	04	-27	03	-33	0	0	0	0					
30.	_____ there a good party last night?												***	**	+++	**	**
	Was	A.*	18	59	38	54	57	19	59	31	65	39					
	Is	B.	43	-10	38	-11	22	-17	31	-26	17	-07					
	Are	C.	29	-29	11	-33	04	-11	03	-01	04	-60					
	Were	D.	11	-20	13	-24	15	-01	07	-12	13	-11					
		Omit	0	0	02	-18	01	02	0	0	0	0					
31.	They _____ pulled the truck out of the mud.												++A	**	**	**	+C
	did	A.	61	12	30	-08	22	-07	20	-29	26	-53					
	will just	B.	21	06	25	-32	13	-36	11	-20	04	-08					
	can just	C.	07	-10	13	-14	09	-25	07	-12	0	0					
	have just	D.*	11	-19	30	54	56	45	63	43	70	54					
		Omit	0	0	02	-18	0	0	0	0	0	0					
32.	I have never been to Japan. _____ go there someday.												***	++D	**	**	**
	I'd like to	A.*	29	20	23	44	51	36	47	50	65	64	6th Guessing.				
	I did	B.	25	-19	13	-34	01	-10	01	-28	04	-60					
	I liked to	C.	18	-06	11	-26	10	-23	12	-26	13	-38					
	I like to	D.	21	10	50	07	37	-21	40	-29	17	-15					
		Omit	07	-10	04	-16	0	0	0	0	0	0					

Item			6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
			Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
33.	I was late _____ I didn't see the whole show.												+++	+D	+D	+D	**
	but	A.	18	-07	18	-31	15	-26	11	-19	09	-79	Replace D with "as" or ...				
	because	B.	39	-03	48	-25	22	-23	33	-49	04	-01					
	so	C.*	39	15	32	52	63	39	55	62	83	62					
	when	D.	04	-15	02	0	0	0	01	-18	04	-05					
-*10*-																	
34.	Even though it was dark the search party _____ looking for the lost boy.												+D	**	*	*	+D
	kept on	A.*	68	55	66	37	91	41	91	27	72	57	Replace option D.				
	kept for	B.	11	-41	14	-19	04	-07	01	-18	22	-36					
	going on	C.	21	-32	11	-13	04	-49	04	-22	04	-49					
	was on	D.	0	0	09	-24	0	0	04	-08	0	0					
35.	We are trying to fix our car. Can we _____ this wrench from you?												+++	**	**	**	**
	lend	A.	07	-18	07	-21	13	-09	09	-11	04	19					
	lent	B.	14	09	14	-39	07	-33	07	-15	09	-38					
	borrow	C.*	64	16	68	61	71	41	77	36	83	23					
	borrowed	D.	14	-12	11	-29	09	-25	07	-30	04	-10					
36.	I need _____ money for lunch.												+++	**	**	*	+B
	many	A.	18	-18	11	-34	04	-33	01	-28	09	-79					
	a few	B.	11	09	09	09	13	-02	05	-06	0	0					
	some	C.*	61	16	71	42	81	29	92	08	87	72					
	a lot	D.	11	-12	07	-38	01	-29	02	13	04	-10					
		Omit	0	0	02	15	0	0	0	0	0	0					

Item			6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		**Comments/Suggestions**				
			Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
37.	2 and 2. Mary _____ the same number of books as John.												***	**	**	**	+C
	has exactly	A.*	21	43	46	62	76	42	71	57	87	67					
	have enough	B.	29	-11	07	-24	09	-38	07	-41	04	-49					
	has about	C.	29	05	23	-25	10	0	21	-33	0	0					
	has more than	D.	21	-36	23	-34	04	-33	02	-16	09	-44					
38.	When the teacher raised his hand, the class got _____ and _____ .												***	**	**	**	**
	louder	A.	29	-21	20	-14	13	-36	12	-33	09	-02					
	quieter	B.*	25	38	45	28	51	38	55	49	65	54					
	quiet	C.	32	06	29	-18	22	-21	23	-22	13	-48					
	quieter	D.	04	04	07	0	13	05	10	-14	13	-27					
		Omit	11	-33	0	0	0	0	0	0	0	0					
39.	I want to buy a coat _____ .												**	**	**	**	**
	who	A.	25	-21	27	-39	03	-29	03	-16	09	-51					
	what	B.	11	-15	09	-13	12	-23	18	-21	04	-01					
	when	C.	21	-27	18	-17	10	-32	07	-46	04	-49					
	which	D.*	43	50	46	55	75	50	71	51	83	65					
		Omit	0	0	0	0	0	0	01	-08	0	0					
40.	wild animals. I _____ any.												**	**	**	**	+B
	have often	A.	25	-36	09	-23	07	-50	09	-27	09	-36	Put "seen" in the stem.				
	have ever	B.	11	-27	09	-18	03	-28	07	-23	0	0					
	have never	C.*	39	49	61	39	72	50	73	47	70	51					
	had ever	D.	25	0	21	-18	18	-12	11	-24	22	-32					

Item			6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
			Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
41.	I could not come yesterday because I _____ visit ...												***	**	**	**	**
	have to	A.	46	-03	45	10	53	-35	42	-24	43	01					
	going to	B.	21	-43	09	-30	01	-29	03	-09	04	-49					
	had to	C.*	25	35	34	32	44	45	54	28	48	23					
	like to	D.	07	12	13	-34	01	-09	02	-05	04	-10					
42.	As soon as you _____, we'll go too.												+D	**	**	**	**
	going	A.	14	-43	09	-15	04	-45	06	-13	09	-79					
	go	B.*	54	51	59	56	79	39	78	38	83	63					
	went	C.	32	22	21	-40	10	-16	11	-36	04	-01					
	goes	D.	0	0	11	-22	06	-06	05	-07	04	-08					
43.	I am wearing a belt which is _____ leather.												**	**	**	**	+BC
	made of	A.*	46	63	68	39	85	52	89	36	83	74					
	making of	B.	04	-15	09	-09	01	-27	02	-18	0	0					
	made for	C.	18	-31	11	-34	06	-41	05	-15	0	0					
	make of	D.	18	-21	13	-15	07	-22	04	-28	17	-74					
		Omit	14	-24	0	0	0	0	0	0	0	0					
44.	I was surprised to find out that he _____ here for six years.												++A	**	**	**	+B
	is	A.	43	26	34	-13	21	-16	09	-24	26	-36					
	has coming	B.	18	-40	11	-15	04	-23	09	-36	0	0					
	had	C.	07	-18	05	-12	03	-17	05	-04	04	-49					
	has been	D.*	32	14	50	26	72	32	77	43	70	56					

Item			6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
			Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
45.	The boy who _____ the fastest won the prize.												++B	++B	**	**	+A
	running	A.	07	-22	07	-19	04	-33	02	-22	0	0					
	ran	B.	43	35	27	12	31	-11	34	-23	39	-62					
	is running	C.	29	-31	34	-32	21	-31	09	-05	04	-10					
	ran	D.*	21	05	32	32	44	49	55	30	57	65					
-*11*-																	
46.	Tom is a good student. He _____ to school every day.												++B	**	**	**	**
	go	A.	18	-19	16	-34	12	-24	14	-36	04	-60					
	went	B.	57	14	36	-11	18	-03	21	-20	04	-08					
	going	C.	14	-33	07	-24	04	-49	01	-08	09	-41					
	goes	D.*	11	37	39	53	66	40	64	44	83	67					
		Omit	0	0	02	-16	0	0	0	0	0	0					
47.	They wanted to get to the next city fast so they went _____ .												++A	**	+D	+D	+B
	by bus	A.	39	16	38	-29	24	-20	16	-15	04	21	How far away is "next city"?				
	in a car	B.	36	-40	21	-09	12	-28	12	-21	0	0					
	by plane	C.*	18	55	38	38	65	37	71	28	87	22					
	on foot	D.	7	-36	02	-10	0	0	01	-08	09	-41					
		Omit	0	0	02	06	0	0	0	0	0	0					
48.	Tom said he had _____ to Ben.												***	**	**	**	+A
	speaking	A.	39	-19	27	-40	12	-31	07	-26	0	0					
	was speaking	B.	11	-33	02	-01	04	-52	02	-19	09	-41					
	just speak	C.	25	04	32	-17	12	05	15	-30	04	-03					
	just spoken	D.*	25	41	39	53	72	43	75	49	87	36					
		Omit	0	0	0	0	0	0	01	-17	0	0					

Item		6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
49. _____ clothes in women's work.												+A	**	*	*	+CD
Wash	A.	0	0	16	-31	04	-26	04	-05	13	-71					
Washing	B.*	43	54	61	60	93	24	92	31	87	71					
Washed	C.	18	-13	09	-09	01	12	03	-21	0	0					
Will wash	D.	39	-45	14	-44	01	-19	02	-32	0	0					
50. I am _____ that I will win this race.												+D	**	**	**	**
certain	A.*	50	57	48	50	78	45	71	41	70	42					
know	B.	21	-33	14	-06	09	-20	08	-32	04	-19					
understand	C.	29	-33	21	-50	03	-34	06	-19	13	-14					
knew	D.	0	0	16	-06	10	-24	14	-16	13	-32					
51. I've _____ a shot at the hospital.												**	**	**	**	+C
just had	A.*	36	38	57	55	76	40	74	38	87	16	Put just in the stem.				
just have	B.	32	-29	18	-35	15	-33	18	-27	09	-13					
just having	C.	18	07	20	-15	04	-09	05	-07	0	0					
just has	D.	14	-20	05	-36	04	-18	03	-15	04	-10					
52. I _____ go much anymore.												++	**	**	**	+C
hardly ever	A.*	18	36	61	56	74	38	72	34	74	46	6th Guessing.				
really	B.	43	-02	21	-38	06	-20	06	-17	04	-19					
almost	C.	32	-34	14	-45	12	-33	11	-30	0	0					
sometimes	D.	07	13	04	21	09	-04	11	-06	22	-39					

Item		6th (28) Dif	Pbs	7th (56) Dif	Pbs	8th (68) Dif	Pbs	9th (112) Dif	Pbs	10th (23) Dif	Pbs	Comments/Suggestions 6	7	8	9	10
53. It is too big. It _____ go into the box.												**	**	**	*	+D
won't	A.*	71	33	66	63	90	54	93	82	83	56	9th - Easy but good.				
will	B.	14	-21	14	-28	03	-23	03	-03	13	-27					
must	C.	04	-13	14	-42	03	-33	04	-33	04	-60					
isn't	D.	11	-16	05	-23	04	-34	01	-17	0	0					
54. Pull hard! Don't let the fish _____ away.												**	**	**	**	**
getting	A.	11	-32	07	-36	01	-27	04	-15	09	-43					
get	B.*	64	49	66	36	78	40	77	35	74	31					
got	C.	14	-21	18	-21	10	-34	06	-24	04	-08					
gets	D.	07	-10	09	01	10	-10	13	-18	13	-01					
	Omit	04	-20	0	0	0	0	0	0	0	0					
55. If I had a lot of money _____ buy myself a fast car.												++A	***	++A	+++	+++
I will	A.	43	18	59	-07	72	24	64	0	52	-06	Isn't "could" grammatically correct? No correct answer.				
I would	B.*	14	03	14	35	10	03	16	16	26	19					
I can	C.	32	-01	16	-11	12	-10	14	-17	04	-10					
I would have	D.	11	-32	11	-14	06	-36	05	0	17	-09					
56. The force of the wind was so strong that a car _____ off the road.												***	***	**	**	**
was caught	A.	25	-03	20	-34	16	-26	09	-33	04	-60	6th-7th Guessing.				
had thrown	B.	29	-40	38	0	15	-17	31	-21	39	02					
was throwing	C.	25	-12	18	-12	06	-37	04	-19	04	-03					
was thrown	D.*	21	60	25	41	63	50	55	46	52	23					

Item		6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
57. When I _____ then you may sit down.												++	++	++	***	++D
had finished	A.	43	10	21	-23	18	-15	21	-17	26	-29	Put "talking" in the stem.				
finished	B.	32	-32	43	06	43	-04	37	09	30	-06	Lot of guessing at all grades.				
have finished	C.*	07	05	11	-17	15	11	19	20	22	-07					
have finish	D.	18	24	25	28	25	08	24	-13	22	45					
-*12*-																
58. We can't dismiss the class because _____ are finished.												**	**	**	**	+D
nobody	A.	32	-04	30	-33	21	-20	18	-45	13	-53					
not anybody	B.	25	-27	14	-06	10	-31	08	-12	09	-41					
none of them	C.*	39	35	50	45	65	47	73	50	78	72					
none for them	D.	04	-20	05	-22	04	-24	01	-17	0	0					
59. The scissors _____ used.												***	++D	***	+++	+++
isn't	A.	54	-16	32	-37	26	-14	11	-12	09	06	Lot of guessing in all grades.				
weren't	B.*	14	34	18	32	16	31	35	21	35	19					
wasn't	C.	18	-04	27	-13	25	-10	33	-05	35	-20					
aren't	D.	14	-06	23	25	29	0	21	-10	22	-03					
	Omit	0	0	0	0	03	-05	0	0	0	0					
60. (Ann can't cook rice.) Mary can't cook rice _____ .												***	**	+C	+C	+BC
too	A.	75	-13	45	-23	43	-17	37	-23	26	-22					
yet	B.	11	-41	14	-09	09	-33	07	-31	0	0					
still	C.	0	0	05	-26	0	0	02	-17	0	0					
either	D.*	14	52	36	43	49	35	54	43	74	22					
-*13*-																

APPENDIX F

Summary Statistics

MTEA Part III - Reading Comprehension

Form B - March-May, 1976

30 Items

	6th	7th	8th	9th	10th
N Subjects	28	56	68	112	23
Mean	11.14	14.70	17.62	20.02	21.70
S.D.	4.05	5.54	5.67	4.85	3.88
Reliabilities					
Split Half	.80	.85	.83	.79	.63
SE_{MEAS}	1.77	2.16	2.32	2.22	2.36
KR_{20}	.64	.81	.83	.77	.70
SE_{MEAS}	2.40	2.42	2.38	2.33	2.12

Comments

Legend for Item Analysis

Comment	Suggestion
* = Too easy (.90+)	Replace with item of more appropriate content.
** = Adequate item	
*** = Too difficult (.30-_	Has material been covered? Consider replacing.
+A = Weak distractor (A)	Replace distractor with more attractive alternative.
++A = Ambiguous (Option A)	More than one (seemingly) correct answer.
+++ = Weak discrimination	Adequate item, but as easy for good as poor students. Minor modifications could improve it.

This legend system has been devised to provide as much information about each item by grade as possible.

In revising each item, focus your attention on the grade level(s) for which the test (and eventually norms) is primarily intended.

Any of the questions marked with a "+" symbol are judged to be adequate items if it is possible to revise the weakness specified.

ITEM ANALYSIS FOR MTEA PART III - FORM B MARCH-MAY, 1976

Item		6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
1. Why do Mr. Cruz and Mr. Sablan bring their lunch with them?												+++	+A	**	**	*
don't like	A.	14	04	0	0	06	-37	03	-15	0	0					
no restaurants	B.*	68	02	89	31	91	34	90	40	100	0					
like to make	C.	07	-08	02	-04	1	05	04	-29	0	0					
like fish	D.	11	-01	09	-32	1	-12	03	-21	0	0					
2. What did Mr. Cruz do every day?												+++	**	++C	++C	+B
ate fish	A.	46	-07	29	-54	12	-34	18	-27	43	-41					
ate Spam	B.	04	09	05	-24	04	-15	02	-24	0	0					
ate one	C.	18	-18	14	08	13	13	23	15	22	-01					
threw away	D.*	32	19	52	54	71	21	57	14	35	43					
3. Did Mr. Sablan like fish sandwiches?												***	+C	**	**	**
no	A.	50	-20	38	-11	44	-25	29	-23	26	-06	Option C is weak.				
yes	B.	18	05	27	-11	12	-31	10	-25	04	-15					
only Spam	C.	07	02	0	0	01	-23	02	-01	09	-57					
not told	D.*	25	16	36	21	41	49	60	37	61	44					
	Omit	0	0	0	0	01	09	0	0	0	0					
4. Why didn't Mrs. Cruz make other kinds of sandwiches?												***	**	**	**	+B
didn't know	A.	18	-02	20	-21	09	-28	15	-33	04	-15					
couldn't make	B.	21	-24	20	-17	22	-40	13	-29	0	0					
no Mrs. Cruz	C.*	25	49	50	55	63	66	66	54	87	57					
Cruz liked	D	32	-29	11	-41	06	-30	05	-16	09	-57					
	Omit	04	14	0	0	0	0	0	0	0	0					

Item		6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		**Comments/Suggestions**				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
5. The lady asked the salesman to												+A	+B	**	*	*
destroy dress	A.	0	0	04	-04	03	-16	03	-17	0	0					
sell dress	B.	14	-29	0	0	04	-07	02	0	0	0					
take out	C.*	75	33	89	35	90	27	95	17	100	0					
put in box	D.	11	-13	07	-40	03	-23	01	-12	0	0					
6. The salesman was happy because												***	**	**	+C	+C
had long time	A.	54	03	57	-40	49	-30	40	-44	30	-43	Possible confusion over understanding of "both" in option D.				
not waste time	B.	25	02	07	-10	06	-17	05	-25	04	02					
make much $$	C.	11	-30	04	-06	03	0	0	0	0	0					
Both A & B	D.*	11	22	32	50	43	38	54	55	65	41					
7. What did the salesman do with the dress?												+D	**	**	**	+BC
take out	A.*	57	53	57	44	71	30	76	31	78	04					
put in box	B.	21	-30	18	-38	03	-19	04	-18	0	0					
sold it	C.	21	-34	7	-07	06	-13	04	-31	0	0					
Both A & B	D.	0	0	18	-15	19	-13	17	-11	22	-09					
	Omit	0	0	0	0	01	-21	0	0	0	0					
8. Why did the lady ask the salesman to take the dress out of the window?												**	**	**	**	*
flowers	A.	43	-14	20	-26	15	-53	15	-42	04	-59					
wear it	B.	11	-41	05	0	01	-06	03	-16	0	0					
hated to see	C.*	36	62	50	43	81	53	76	46	96	59					
make happy	D.	11	-33	25	-26	03	-08	06	-08	0	0					

Item		6th (28) Dif	Pbs	7th (56) Dif	Pbs	8th (68) Dif	Pbs	9th (112) Dif	Pbs	10th (23) Dif	Pbs	Comments/Suggestions 6	7	8	9	10
9. What did the boys use for going to the reef?												**	**	**	*	*
speedboat	A.	18	-39	04	-09	03	-08	05	-22	04	-09	Are more plausable distractors available for C & D? dory, sanpan ...				
raft	B.*	57	50	77	49	91	24	93	16	96	09					
walked	C.	14	06	09	-23	03	-19	02	07	0	0					
canoe	D.	11	-39	11	-40	03	-14	0	0	0	0					
10. Why did they anchor at the edge of the reef?												***	+++	**	**	+D
calm	A.	46	-14	48	06	44	-32	33	-17	30	-24	Proximity of calm to anchored in text may be a little ambiguous.				
afraid	B.	18	12	07	-12	03	-20	04	-13	04	-59					
shoot bait	C.*	21	13	36	04	43	54	55	30	65	48					
not anchor	D.	14	-09	09	-06	10	-25	08	-17	0	0					
11. Where did the boys get their bait?												**	**	**	**	+++
on the reef	A.*	46	43	57	58	56	44	66	45	74	11					
from home	B.	25	-27	20	-13	16	-17	08	-24	09	10					
speared	C.	11	-01	04	-27	12	-23	09	-12	09	-06					
on line	D.	14	-24	20	-47	16	-23	17	-31	09	-21					
	Omit	04	-05	0	0	0	0	0	0	0	0					
12. What happened to Pete's line?												**	**	**	**	+++
big fish	A.	07	-18	14	-29	04	-10	06	-23	09	-06					
lost	B.*	32	41	52	46	65	40	62	31	74	18					
nothing	C.	11	-24	07	-17	09	-10	08	-05	04	-09					
pulled in	D.	50	-14	27	-19	21	-32	23	-17	13	-14					
	Omit	0	0	0	0	01	-12	01	-12	0	0					

Item		6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
13. Why did Pete tie a new hook on his line?												++C	++C	++C	++C	++C
bigger fish	A.	46	-21	18	-30	06	-33	09	-13	09	-57	C is ambiguous, "it" could refer to the line or the hook. Revise.				
stronger hook	B.	14	-24	21	-27	15	-38	11	-22	04	-09					
hook broke	C.	29	15	48	44	53	21	54	17	43	29					
line broke	D.*	11	39	13	02	26	24	26	04	43	07					
14. Why did Joe dive into the water?												++A	***	**	**	+A
couldn't pull	A.	32	32	20	-07	16	-06	04	-13	0	0	7th Good but difficult. Option C includes the correct answer to question 9. Both unclear?				
last hook	B.	29	-40	38	-02	22	-10	25	-38	22	-26					
was hot	C.	25	-29	13	-39	09	-25	02	10	04	-59					
Both A & B	D.*	14	44	29	42	51	32	70	38	74	51					
	Omit	0	0	02	-19	01	-21	0	0	0	0					
15. Why couldn't Joe see the fish right away?												+B	**	**	**	+D
shadows	A.*	54	37	55	54	62	49	71	51	83	53					
dirty	B.	0	0	07	-13	04	-26	04	-13	04	-59					
deep	C.	32	-42	30	-29	29	-33	20	-39	13	-24					
eyes weak	D.	14	04	05	-34	04	-16	04	-27	0	0					
	Omit	0	0	02	-19	0	0	01	02	0	0					
16. How did Joe feel when he got close to the shadows?												**	**	**	**	*
scared	A.	25	-18	18	-12	28	-23	11	-14	04	-20					
not scared	B.	21	-21	07	-28	06	-25	04	-18	0	0					
dizzy	C.	04	-20	09	-32	09	-36	07	-26	0	0					
little funny	D.*	50	41	64	49	57	53	78	36	96	20					
	Omit	0	0	02	-19	0	0	0	0	0	0					

Item		6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
17. What was it that almost happened to Joe?												***	**	**	**	**
drowned	A.	11	-16	04	-20	06	-12	04	-18	09	-29	Is "was it that", needed in the question?				
eaten	B.*	32	24	41	28	51	41	59	60	78	34					
saw devil	C.	25	0	34	0	28	-14	26	-39	09	-10					
became dizzy	D.	32	-14	20	-20	15	-32	11	-27	04	-15					
	Omit	0	0	02	-19	0	0	0	0	0	0					
18. Before cotton could be made into cloth it had to be												++D	++D	++D	**	+B
planted	A.	14	-19	05	-19	04	-12	03	-11	04	02	D is ambiguous especially at 6-8 grades. Revise option. Perhaps putting "cotton" before fiber in text would help.				
washed	B.	11	10	16	-34	09	-33	01	-08	0	0					
separated	C.*	25	-29	36	14	50	22	63	24	57	09					
fiber	D.	50	32	39	10	37	02	34	-19	39	-10					
	Omit	0	0	04	-25	0	0	0	0	0	0					
19. How much cotton could one man separate from seed in one day?												**	**	**	+C	*
1 lb.	A.*	57	44	63	53	68	44	83	31	91	06	Add "Before the invention of the cotton gin" or else B is also correct.				
50 lbs.	B.	18	-20	18	-18	28	-32	14	-21	04	18					
75 lbs.	C.	14	-17	07	-15	01	-14	0	0	0	0					
1 gal.	D.	11	-27	09	-35	03	-25	03	-26	04	-26					
	Omit	0	0	04	-25	0	0	0	0	0	0					
20. The invention of the cotton gin												+++	**	**	**	**
rich	A.	21	11	11	-08	13	-27	13	-14	04	-09					
cloth slow	B.	11	-27	16	-22	07	-20	06	-18	04	-15					
teaching	C.	25	-06	25	-01	29	-29	32	-15	04	-59					
increased	D.*	39	14	45	32	50	55	48	36	87	50					
	Omit	04	-01	04	-25	0	0	01	-22	0	0					

Item		6th		7th		8th		9th		10th		Comments/Suggestions				
		(28)		(56)		(68)		(112)		(23)						
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
21. Why did Eli Whitney decide to invent the cotton gin?												++A	++C	++C	**	+A
more cotton	A.	39	14	11	-34	15	-30	01	-12	0	0	Item difficulty again hinges on "both". Testing knowledge of both rather than passage?				
prize	B.	36	-27	29	-15	15	-30	13	-30	30	-36					
interested	C.	18	03	21	20	29	26	23	-18	04	-09					
Both B & C	D.*	07	20	36	29	40	25	62	43	65	39					
	Omit	0	0	04	-25	01	-20	01	-22	0	0					
22. What did Eli Whitney do after he invented the cotton gin?												++A	**	**	**	+D
teach	A.	39	24	32	-10	25	-36	26	-35	30	-51					
improved it	B.*	29	-14	45	34	53	53	64	48	65	53					
nothing	C.	18	-06	16	-09	18	-20	06	-15	04	-09					
vacation	D.	11	-01	04	-25	03	-13	02	04	0	0					
	Omit	04	-15	04	-25	01	-12	02	-25	0	0					
23. Why didn't Eli Whitney become a rich man from his invention?												++D	**	**	**	+C
others built	A.*	50	52	63	33	65	41	71	42	70	51	Problem of "both". Option D "because he sold his machine at a cheap price".				
gave away	B.	14	-32	16	-20	06	-13	02	-07	04	-59					
nobody like	C.	32	-48	04	-02	06	-20	06	-16	0	0					
Both A & B	D.	04	47	14	-11	24	-27	20	-28	26	-26					
	Omit	0	0	04	-25	0	0	02	-25	0	0					
24. The Smiths started their trip with the intention of sailing from												++D	**	**	**	**
Marshall	A.	39	28	16	-19	15	-24	14	-34	17	04	Options B and C the same!				
Hawaii	B.	14	-19	07	-22	13	-16	02	-10	04	-59					
Hawaii	C.*	25	27	52	52	60	50	79	48	70	31					
Bikar	D.	14	-24	16	-19	09	-34	02	-11	09	-13					
	Omit	07	-39	09	-23	03	-08	04	-26	0	0					

Item		6th (28) Dif	6th (28) Pbs	7th (56) Dif	7th (56) Pbs	8th (68) Dif	8th (68) Pbs	9th (112) Dif	9th (112) Pbs	10th (23) Dif	10th (23) Pbs	Comments/Suggestions 6	7	8	9	10
25. The first serious problem that they had was												**	++D	+++	+++	+++
typhoon	A.	32	-39	20	02	24	-05	21	12	30	-07	Ambiguous. serious means ...				
shipwrecked	B.*	36	44	39	10	41	01	38	08	22	-07	i.e. a big storm is not serious.				
broke	C.	14	11	11	-05	07	-08	05	-12	04	-09	D weak option. Revise completely.				
Both B & C	D.	14	-09	21	26	28	08	33	-07	43	16					
	Omit	04	-20	09	-17	0	0	02	-25	0	0					
26. What happened to their sailboat?												++B	**	**	**	+++
sank	A.	18	-12	14	0	19	03	09	-15	09	-49	Ambiguous, shipwrecked mean ...				
broke in half	B.	43	10	23	-13	26	-02	19	-04	48	03	A shipwreck could involve A, B				
engine broke	C.	18	-34	21	-36	19	-45	09	-13	09	02	or D.				
aground	D.*	21	33	34	55	34	40	62	27	35	25					
	Omit	0	0	07	-22	01	-14	02	-25	0	0					
27. Why did Henry build a raft?												++D	**	**	**	*
survive	A.*	54	43	54	67	74	61	76	62	91	61					
out of food	B.	14	-17	18	-23	13	-36	13	-32	04	-26					
crocodiles	C.	11	-18	05	-10	09	-30	05	-25	0	0					
fighting	D.	21	21	16	-46	04	-30	03	-34	04	-59					
	Omit	0	0	07	-22	0	0	03	-26	0	0					
28. What did they take with them on the raft?												**	**	**	**	**
water	A.	11	-33	11	-16	07	-15	07	-22	04	-04					
food & water	B.*	50	46	45	43	68	32	74	38	83	47					
coconut crabs	C.	25	-23	18	-29	12	-30	06	-16	04	-15					
nothing	D.	11	10	20	0	13	-05	10	-11	09	-49					
	Omit	04	-34	07	-22	0	0	03	-26	0	0					

Item		6th (28)		7th (56)		8th (68)		9th (112)		10th (23)		Comments/Suggestions				
		Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	Dif	Pbs	6	7	8	9	10
29. The raft that Henry built was slowly sinking because												***	**	**	**	+A
badly made	A.	25	29	09	-28	04	-25	04	-17	0	0	6th - Guessing. D is inappropriate for this type of item and should be replaced.				
waterlogged	B.*	25	-21	39	57	51	50	61	40	70	34					
damaged	C.	32	11	30	-10	15	-27	13	-17	09	-21					
none of above	D.	18	-23	14	-28	29	-22	21	-18	22	-23					
	Omit	0	0	07	-22	0	0	02	-22	0	0					
30. The Smiths gave up all hope of survival when												**	**	**	**	**
storm	A.	07	-08	29	-09	21	-31	17	-07	13	-10					
island	B.	29	-28	14	-04	10	-39	05	-07	09	-49					
15 days	C.*	50	30	41	36	56	60	69	28	61	58					
aground	D.	14	-01	09	-23	13	-17	07	-22	17	-29					
	Omit	0	0	07	-22	0	0	02	-22	0	0					